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Preface



Hytera is dedicated to providing an extensive range of accessory solutions that work with the terminals or mobile units. This will deliver users a remarkable communication service.

To attain this position, we have continually invested, through the R&D process of each product, substantial work. From the very beginning, a systematic plan is hammered out, whereby an in-depth analysis on the relationship between the accessory and related devices is given. This helps to enhance the systems performance by maximizing each device's functionality. When it comes to testing, all accessories shall undergo a series of rigid tests that verify the suitability of the device covering form and function. The testing

involves accelerated life tests (ALT), mechanical, temperature, humidity and etc. A final system-wide interoperability test carried out before delivery.

In the interests of users and correct functionality, only original Hytera products and accessories must be used with the equipment.

Note: This catalogue is subject to change without notice due to continuous development. Please visit us at <http://www.hytera.com> for the latest product information.



Portable Radio Accessories

We provide all sorts of accessories like audio accessories, batteries, chargers, carry accessories, and antennas, etc. All of them are tested to operate with your radios in extreme conditions while boosting team productivity.

1.1 Audio Devices

A full line of audio accessories, including conventional earpieces, surveillance earpieces, dedicated earpieces, and remote speaker microphone, is performance-matched for your radios, delivering you secure and reliable communication.

1.1.1 Wireless Earpiece

Hytera wireless earpiece kit provides simple design, easy, comfortable and cable free wearing, allowing you to communicate effectively.

Highlights

- » Automatic pairing and connection for easy operation;
- » Ergonomic design for long time wearing;
- » Any time and any place charging via the portable radios;
- » Double PTT design for earpiece and adapter, adaptive with ring PTT for flexible operations.

Applications

For users engaged in mid-and-high-end industries such as hospitality, shopping mall, entertainment and security service.

Specifications

Communication range: 8~10m
Operation time: ≥4h for ESW01
PTT cycle≥100000
IP class: IP54
Operation temperature: -20~60° C

Applicable Radios List

Product Model	Product Model	Applicable Radios
ESW01-N1	ESW01	PD78X,PD70X,PD75X
	ADN-01	PD78X,PD70X,PD75X
ESW01-N2	ESW01	PD60X,X1e,X1p,PD68X,PD66X
	ADN-02	PD60X,X1e,X1p,PD68X,PD66X



ESW01-N2



ESW01



ADN-02

1.1.2 Wireless Ring PTT

Hytera wireless ring PTT is designed for finger wearing and allows you to trigger PTT functions without holding the portable radios, providing covert and convenient operations.

Highlights

- » Small and light design for covert and convenient operations;
- » Two programmable keys can be programmed with Volume Up/Down or Channel Up/Down functions via CPS*.

Applications

For users engaged in mid-and-high-end industries such as hospitality, entertainment and security service.

Specifications

Communication range: ≥10m
Operation time: ≥20h
PTT cycle≥100000
IP class: IP54
Operation temperature: -20~60° C;

Applicable Radios List

Product Model	Product Model	Applicable Radios
POA47	ADN-01	PD78X,PD70X,PD75X
	ADN-02	PD60X,PD66X,PD68X
	ADA-01	MD65X,MD78X
	X1e,X1p,Z1p	

*These functions are only applicable with X1e/X1p/Z1p



POA47

1.1.3 Detachable Earpiece

Hytera detachable earpieces are the fashionable and comfortable-wearing earpiece designed for the high-end customer. Customers can attach Hytera detachable earpiece via the 3.5mm connector. The Hytera detachable earpiece is adaptive to radios with VOX functions, allowing customers to enjoy hands-free communication. The detachable design helps customers to replace the earpiece swiftly and ensures safe personal hygiene, also provides the ideal solution for cost saving.

Highlights

- » Detachable design for flexible operations;
- » Ergonomic design for long time wearing;
- » Flexible replacement to meet different needs.

Applications

For users engaged in mid-and-high-end industries such as hospitality, shopping mall, entertainment and security service.

Specifications

ACN-01/ACN-02 specification:

- Microphone specification:
Sensitivity: -42±3dB@1kHz 0dB=1V/Pa(Finish product)
Impedance: ≤2.2kΩ@1kHz
Operation voltage: 1~10vDC
- PTT cycles ≥ 100000
- IP class: IP54
- Operation temperature: -20~60° C;

ACM-01 specification:

- Microphone specification:
Sensitivity: -45±3dB@1kHz 0dB=1V/Pa(Finish product)
Impedance: ≤2.2kΩ@1kHz
Operation voltage: 1~10vDC
- PTT cycles ≥ 100000
- IP class: IP54
- Operation temperature: -20~60° C;



ACN-01



ACM-01

ES-01 specification:

- Speaker specification:
Sensitivity: 110±3dB@1kHz (Finish product)
Rated power: 10mW Max power: 30mW
Resistance: 32Ω±15%@1kHz
- Operation temperature: -20~60° C;



ES-01

EH-01 specification:

- Speaker specification:
Sensitivity: 108±3dB@1kHz (Finish product)
Rated power: 10mW Max power: 30mW
Resistance: 32Ω±15%@1kHz
- Operation temperature: -20~60° C;



EH-01

ES-02 specification:

- Speaker specification:
Sensitivity: 117±3dB@1kHz (Finish product)
Rated power: 10mW Max power: 30mW
Resistance: 90Ω±15%@1kHz
- Operation temperature: -20~60° C;



ES-02

EH-02 specification:

- Speaker specification:
Sensitivity: 115±3dB@1kHz (Finish product)
Rated power: 50mW Max power: 100mW
Resistance: 150Ω±15%@1kHz
- Operation temperature: -20~60° C;



EH-02

Audio Accessory Jack	Product Model					Applicable Radios	VOX	Remarks
	ACN-01	+	EH-01	=	EHN16	PD70X,PD78X,PT580H,PT580,PD70X(UL913),PD78X(UL913),PT580H (UI913),PD75X	●	The VOX function can be enabled or disabled through the radio.
			EH-02		EHN17			
			ES-01		ESN12			
			ES-02		EAN23			
	ACN-02	+	EH-01	=	EHN21	X1e,X1p,X1p (UL913),Z1p,PD60X,PD66X,PD68X	●	The VOX function can be enabled or disabled through the radio.
			EH-02		EHN20			
			ES-01		ESN14			
			ES-02		EAN22			
	ACM-01	+	EH-01	=	EHM19	TC-700,TC-610,TC-620,TC-510,TC-446S,PD50X,PD40X,PD41X,PD56X	○	VOX is not supported
			EH-02		EHM20			
			ES-01		ESM14			
			ES-02		EAM17			
	ACS-01	+	EH-01			PD35X,PD36X,PD37X	○	VOX is not supported
			EH-02					
			ES-01					
			ES-02					

Note: Customers can purchase ACN-01, ACN-02, ACN-03 and EH-01, EH-02, ES-01, ES-02 separately to assemble them into 12 different types of earpiece for adaption with three radio models. Moreover, the detachable earpiece can provide the ideal solution for inventory management and provides a quick response to their customer demands.

1.1.4 C-Earset

This new, fashionable and comfortable-wearing C-Earset of Hytera is designed for compact radios such as PD35X series. This C-Earset is an economical and practical earpiece marketed in hospitality, catering, entertainment, property management industries.

Highlights

- » Perfect fit and comfortable wearing;
- » In-ear and swivel design enabling it to be worn in either ear;
- » Economical and practical design to meet customers’ needs;
- » PTT-IN-LINE wire controlling structure;
- » Plastic cable clamp for PTT place adjustment.

Applications

For users engaged in retailing, entertainment, hospitality and catering industries.

Specifications

- Speaker:
Sensitivity: 105±3dB@1kHz(Single part)
Rated power: 10mW Max power: 30mW
Resistance: 32Ω±15%@1kHz
- Microphone:
Sensitivity: -42±3dB@1kHz 3v 2.2k 0dB=1v/Pa
- Operate Temp.: -20~60° C
- PTT Cycle: ≥100000

Applicable Radios List

Applicable Radios List: PD35X, PD36X, PD37X



EHS16

1.1.5 C-Earset

Conventional earpieces allow you to work hands-free, enabling you to enjoy greater convenience and discreet communication.

Highlights

- » Comfortable to wear with C-style earset;
- » Swivel earbud for easy replacement;
- » Affordability and practicality;
- » PTT-in-line design;
- » Attaching the PTT securely with the plastic clip;
- » VOX available.

Applications

For users engaged in retailing, entertainment, hospitality and catering services.

Specifications

- Speaker:
Sensitivity: 110±3dB@1kHz 1mW (single part)
Rated power: 10mW Max power: 30mW
Resistance: 32Ω±15%@1kHz
- Microphone specifications:
Sensitivity: -40±3dB@1kHz 3.0V 2.2KΩ, 0dB=1V/pa
- Operating temperature: -20~60° C

Applicable Radios List

Audio Accessory Jack	Product Model	Applicable Radios	Volume Control	VOX	Remarks
	EHK01	TC-268,TC-268S, TC-368S, TC-270	○	○	



Earset with in-line Microphone
EHS12

Audio Accessory Jack	Product Model	Applicable Radios	Volume Control	VOX	Remarks
	EHS12	TC1688, TC-320 and TC-310	○	○	
	EHS09	TC1688, TC-320 and TC-310	○	●	Switch between PTT and VOX from the earpiece
	EHS13	TC-320	○	●	Switch between PTT and VOX from the earpiece

Note: “○” indicates that the function is not available; “●” indicates that the function is available. The above VOX shall be programmed. Please refer to the Owner's Manual for specific configuration.

1.1.6 Earbud

Highlights

- » PTT-ON-MIC design and elegant appearance;
- » Metal clip on the PTT back clips securely onto collar;
- » Capable of volume control and PTT/ VOX switch;
- » Affordability and easy operation.

Applications

For users in high-level enterprises and government sectors.

Specifications

- Speaker specifications
Sensitivity: 112±3dB@1kHz 20mW (single part)
Rated power: 10mW Max. power: 30mW
Impedance: 32Ω±15%@1kHz
- Microphone specifications
Sensitivity: -42±3dB@1kHz 3.0V 2.2KΩ, 0dB=1V/pa
- Operating temperature: -20° C~60° C

Applicable Radios List

Audio Accessory Jack	Product Model	Applicable Radios	Volume Control	VOX	Remarks
	ESN06	TC-780M,TC3000,TC3600, TC3600M,TC-780, TC-880GM	●	●	The VOX function can be enabled or disabled through the radio.
	ESM12	TC-700,TC-610,TC-620,TC-510, TC-446S,PD50X,PD40X, PD41X,PD56X	○	●	Switch between PTT and VOX from the earpiece
	ESM08	TC-500,TC-600,TC2100H, TC1600	●	○	

Note: “○” indicates that the function is not available; “●” indicates that the function is available. The above VOX shall be programmed. Please refer to the Owner's Manual for specific configuration.



Earbud with on-MIC PTT
ESN06

1.1.7 D-Earset

Highlights

- » Comfortable to wear with D-style earset;
- » Excellent audio clarity through the large speaker;
- » PTT-in-line design;
- » Attaching the PTT securely with the plastic clip;
- » Capable of volume control or PTT/ VOX switch.

Applications

For users in high-level enterprises and government sectors.

Specifications

- Speaker specifications
Sensitivity: 119±3dB@1KHz 20mW (single part)
Rated power: 50mW Max. power: 100mW
Impedance: 150Ω±15% @1KHz
- Microphone specifications
Sensitivity: -42±3dB@1kHz 3.0V 2.2KΩ, 0dB=1V/pa
- Operating temperature: -20° C~60° C

Applicable Radios List

Audio Accessory Jack	Product Model	Applicable Radios	Volume Control	VOX	Remarks
	EHN07	TC-780M,TC3000,TC3600, TC3600M,TC-780, TC-880GM	●	●	
	EHM15	TC-700,TC-610,TC-620, TC-510,TC-446S, PD50X,PD40X,PD41X,PD56X	○	●	Switch between PTT and VOX from the earpiece



D-earset with In-Line Microphone
EHM15

Note: “○” indicates that the function is not available; “●” indicates that the function is available. The above VOX shall be programmed. Please refer to the Owner's Manual for specific configuration.

1.1.8 Surveillance Earpieces

Surveillance earpieces are designed for users who require discreet communication. Its soft silicone earplug can help reduce fatigue from long-time use.

Earpiece with on-MIC PTT & Transparent Acoustic Tube

Highlights

- » Flexible transparent tube for covertness and comfort;
- » Soft silicone earplug for comfortable use;
- » Detachable transparent tube for easy replacement;
- » PTT-ON-MIC design;
- » Capable of volume control or PTT/ VOX switch.

Applications

For users (such as the police) who require discreet communications.

Specifications

- Speaker specifications
Sensitivity: 112±3dB@1KHz 1mW (single part);
Rated power: 10, Max. power: 30mW;
Speaker impedance: 32Ω±15% @1KHz
Microphone specifications
Sensitivity: -42±3dB@1kHz 3.0V 2.2KΩ, 0dB=1V/pa
Operating temperature: -20° C~60° C



Earpiece with on-MIC PTT & Transparent Acoustic Tube
EAN04

Applicable Radios List

Audio Accessory Jack	Product Model	Applicable Radios	Volume Control	VOX	Remarks
	EAN04	TC-780M,TC3000,TC3600, TC3600M,TC-780, TC-880GM	●	●	The VOX function can be enabled or disabled through the radio.
	EAM12	TC-700,TC-610,TC-620, TC-510,TC-446S, PD50X,PD56X,PD40X,PD41X	○	●	Switch between PTT and VOX from the earpiece
	EAM08	TC-500,TC-600,TC2100H, TC1600	●	○	

Note:“O” indicates that the function is not available;“●” indicates that the function is available. The above VOX shall be programmed. Please refer to the Owner's Manual for specific configuration.

2-Wire Surveillance Earpiece with Transparent Acoustic Tube

Highlights

- » PTT and SPK separated for discreet communication;
- » Easy to hide the PTT line under clothing;
- » Flexible transparent tube for covertness and comfort;
- » The soft silicone earplug reduce fatigue;
- » Detachable transparent tube for easy replacement;
- » PTT-ON-MIC design;
- » Capable of volume control or PTT/ VOX switch.

Applications

For users (such as the police) who require discreet communications.



2-Wire Surveillance Earpiece with Transparent Acoustic Tube
EAM13

Specifications

- Speaker specifications
Earpiece for analog radios
Sensitivity: 118±3dB@1KHz 20mW (single part)
Rated power: 10mW Max. power: 30mW
Impedance: 32Ω±15% @1KHz
Earpiece for digital radios
Sensitivity: 112±3dB@1KHz 1mW (Single part)
116±3dB@1KHz 1mW (single part) for EAN24
Rated power: 10mW Max. power: 30mW
Impedance: 32Ω±15% @1KHz
90Ω±15% / 220Ω±20 % @ 1 KHz for EAN24
- Microphone specifications
Sensitivity: -42±3dB@1kHz 3.0V 2.2KΩ, 0dB=1V/pa
- Operating temperature: -20° C~60° C

Applicable Radios List

Audio Accessory Jack	Product Model	Applicable Radios	Volume Control	VOX	Remarks
	EAN07	TC-780M,TC3000,TC3600, TC3600M,TC-780, TC-880GM	●	●	The VOX function can be enabled or disabled through the radio.
	EAM13	TC-700,TC-610,TC-620, PD50X,PD56X,PD40X, PD41X	○	●	Switch between PTT and VOX from the earpiece
	EAN24	X1e,X1p,PD60X,PD68X, X1p (UL913),PD66X,Z1p	●	●	The VOX function can be enabled or disabled through the radio. (with different transparent acoustic tube and speaker)

Note:“○” indicates that the function is not available;“●” indicates that the function is available. The above VOX shall be programmed. Please refer to the Owner's Manual for specific configuration.

3-Wire Surveillance Earpiece with Transparent Acoustic Tube (black/beige)

Highlights

- » PTT, MIC and SPK separated for secret communication;
- » Flexible transparent tube for covertness and comfort;
- » Detachable transparent tube for easy replacement and better personal hygiene;
- » Two colors available: beige and black.

Applications

For users (such as the police) who require discreet communications.

Specifications

- Speaker specifications
Earpiece for analog radios
Sensitivity: 118±3dB@1KHz 20mW (single part)
Rated power: 10mW Max. power: 30mW
Impedance: 32Ω±15% @1KHz
Earpiece for digital radios
Sensitivity: 116±3dB@1KHz 1mW (single part)
Rated power: 10mW Max. power: 30mW
Impedance: 90Ω±15% / 220Ω±20 % @ 1 KHz
- Microphone specifications
Sensitivity: -42±3dB@1kHz 3.0V 2.2KΩ, 0dB=1V/pa
- Operating temperature: -20° C~60° C

Applicable Radios List

Audio Accessory Jack	Product Model	Color	Applicable Radios	Volume Control	VOX	Remarks
	EAN18	Black	PD70X,PD78X,PT580H,PT-580,PD70X(UL913),PD78X(UL913),PT580H(UL913),PD75X			The VOX function can be enabled or disabled through the radio.
	EAN17	Beige				
	EAN06	Beige	TC-780M,TC3000,TC3600,TC3600M,TC-780,TC-880GM			The VOX function can be enabled or disabled through the radio.
	EAN21	Beige	X1e,X1p,X1p(UL913),PD60X,PD68X,Z1p,PD66X			

Note: “○” indicates that the function is not available;“●” indicates that the function is available. The above VOX shall be programmed. Please refer to the Owner's Manual for specific configuration.



3-Wire Surveillance Earpiece with Transparent Acoustic Tube (black/beige)
EAN21

3-Wire Surveillance Earpiece with Transparent Acoustic Tube and covert controller

Highlights

- » PTT, MIC and SPK separated for secret communication;
- » Flexible transparent tube for covertness and comfort;
- » Detachable transparent tube for easy replacement and better personal hygiene;
- » Four programmable key for covert controller..

Specifications

- Speaker specifications
Sensitivity: 116±3dB@1KHz 1mW (single part)
Rated power: 10mW Max. power: 30mW
Impedance: 90Ω±15% / 220Ω±20 % @ 1 KHz
- Microphone specifications
Sensitivity: -42±3dB@1kHz 3.0V 2.2KΩ, 0dB=1V/pa
- Operating temperature: -20° C~60° C

Applicable Radios List

Audio Accessory Jack	Product Model	Color	Applicable Radios	Volume Control	VOX	Remarks
	EAN19	Black	X1e,X1p,X1p(UL913),PD60X,PD68X,PD66X			Four programmable keys, can be programmed with volume adjustment, channel adjustment functions



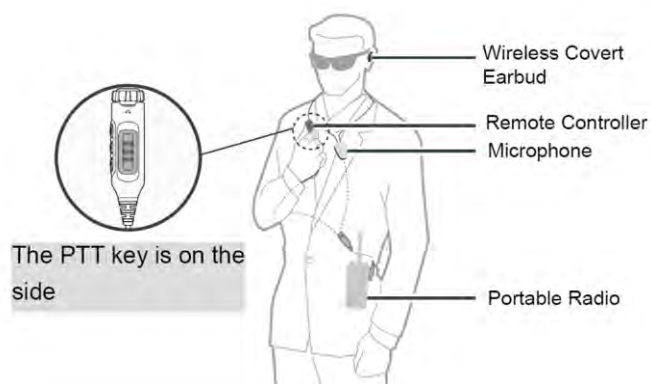
3-Wire Surveillance Earpiece with Transparent Acoustic Tube and covert controller
EAN19

1.1.9 Wireless Covert Earpiece

Highlights

- » Mini receiver can be worn in ear for covertness;
- » Wireless neck loop or flat inductor can be worn underneath clothing for covertness;
- » Long standby time up to 80 hours;
- » Detachable wire for rapidly separate radio(for EWN08);
- » Capable of volume and channel adjustment and other programmable key (for EWN07)

EWN07



Specifications

- Speaker specifications
Sensitivity: 92±3dB @1KHz 10mW
Distortion: ≤ 2%
- Microphone specifications:
Sensitivity: -32±3dB@1kHz 3.0V 2.2K Ω ,0dB=1V/pa
- Operation temperature: -10 ~ 40°C
- Operation time: 80h(average)
- PTT cycle: >10,000 times
- Top knob cycle: > 2,000 times



Digital Wireless Covert Earpiece With in-Line Controller (Neckloop Sensor)(RoHS) EWN07

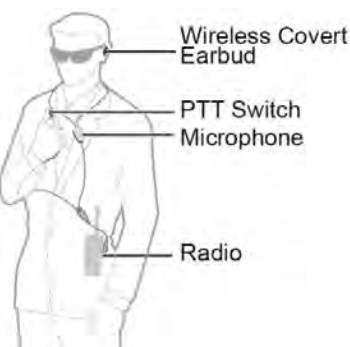
EWN08



Specifications

- Speaker specifications
Sensitivity: 92±3dB @1KHz 10mW
Distortion: ≤ 2%
- Microphone specifications:
Sensitivity: -32±3dB@1kHz 3.0V 2.2K Ω ,0dB=1V/pa
- Operation temperature: -10 ~ 40°C
- Operation time: 80h(average)
- PTT cycle: >10,000 times

EWN09



Specifications

- Speaker specifications
Sensitivity: 92±3dB @1KHz 10mW
Distortion: ≤ 2%
- Microphone specifications:
Sensitivity: -32±3dB@1kHz 3.0V 2.2K Ω ,0dB=1V/pa
- Operation temperature: -10 ~ 40°C
- Operation time: 80h(average)
- PTT cycle: >10,000 times

Applications For users engaged in public/personal security.

Audio Accessory Jack	Product Model	Color	Applicable Radios	Volume Control	VOX	Remarks
	EWN07	Beige	X1e,X1p,PD68X,PD60X,PD66X	●	●	Four programmable keys, can be programmed with volume adjustment, channel adjustment functions
	EWN08	Beige	X1e,X1p,Z1p,PD68X,PD60X,PD66X	○		
	EWN09	Beige	PD70X,PD78X,PT580H,PT580,PD75X	○	●	The VOX function can be enabled or disabled through the radio.

1.1.10 Bone-Conduction Earpieces

A bone-conduction earpiece can convert the vibration in the skull, throat or ear canal generated during your talk into audio signal for transmission. It can enhance the communication clarity by reducing ambient noise.

Highlights

- » Sound is captured through bone vibrations, keeping ambient noise away;
- » Large-sized PTT for enhanced convenience;
- » In-helmet design enables it to work with properly whilst wearing gas masks
- » Fast connector between conduction parts and PTT enables you to be responsive to any emergency event;
- » PTT complies with IP55 requirements;
- » ATEX-approved optional (Ex ib II C T4) (Blue);

Applications

For users (such as the firefighter and miner) who need to wear helmets and masks in harsh situation.

Specifications

- Speaker specifications
Sensitivity: 82±2dB@1KHz (single part, 0.2w/0.5m)
Rated power: 200mW Max. power: 500mW
Speaker impedance: 32Ω±15% @ 1 KHz
- Microphone specifications
Sensitivity: 45dB below 1vot/G acceleration@1kHz
- PTT specifications
Weight: about 120g (without metal clip)
Size: 76.0*17.0 (mm)
IP class: IP55
- Operating temperature: -25° C~85° C

Applicable Radios List

Product Model	Applicable Radios	ATEX Approved	Remarks
EBM02	TC-700	○	
EBM02-Ex	TC-700 ExPlus	●	Blue PTT
EBN09	PD70X,PD78X,PT580H,PT-580,PD75X	○	



Bone Conduction Headset
EBM02

Note: “○” indicates that the function is not available;
“●” indicates that the function is available.

1.1.11 Ex Earpieces

1.1.11.1 Special Ex Earpiece

POA34-Ex

This product is suitable for ex-protection environments in which a helmet is needed but not noise-cancelling headset, such as firefighting and coal mining fields.

Specifications

- Speaker specifications
Sensitivity: 82±2dB@1KHz (0.2w/0.5m)
Rated power: 200mW Max. power: 500mW
Speaker impedance: 32Ω±15% @ 1 KHz
Inductance:L@120Hz=0.878mH, L@1kHz=1.279mH
- Microphone specifications
Sensitivity: -45dB below 1vot/G acceleration@1kHz
Impedance: 3900Ω@1kHz parallel 330Ω



POA34-Ex

POA61-Ex

This product is suitable for ex-protection environments in which a protection suit is needed but not helmet and noise-cancelling headset, such as chemical plant and emergency rescue fields.

Specifications

- Speaker specifications
Sensitivity: 55dB@1kHz(780mVpp. 20mm)
Rated power: 200mW Max. power: 500mW
Speaker impedance: 800Ω±15%@1kHz
- Microphone specifications
Sensitivity: -45dB below 1.0 volt/G acceleration @1kHz
Impedance: 3900Ω@1kHz parallel 330Ω



POA61-Ex

POA62-Ex

The earmuff of the headset is made of special material to provide ideal noise-canceling effect, clear receiving voice and protection of the ears. This product is suitable for ex-protection environments in which a noise-canceling headset is needed but not helmet, such as powder plant and coal processing workshop.

Specifications

- Up to 25dB noise-canceling effect for better protection of ears in noisy environments*
- Speaker specifications
Sensitivity: 80±3dB / 200mW / 0,5m
Rated power: 200mW Max power:500mW
Resistance: 2x150Ω±15%@1kHz
- Microphone specifications
Sensitivity: -50±4dB @1kHz 0dB=1v/pa
Impedance: 2200Ω@1kHz
Type: Unidirectional

**NRR 25dB noise-canceling rate please refer to page 28.*



POA62-Ex

SM24N1-Ex

This product is designed with double PTT and compact size, providing comfortable operation and allowing it to be used as remote speaker microphone.

Specifications

- Speaker specifications
Sensitivity: 94±3dB@1kHz 1w 30cm
Rated power: 1W Max power:2W
Resistance: 20Ω±15%@1kHz
- Microphone specifications
Sensitivity: -50±4dB @1kHz 0dB=1v/pa
Impedance: 2200Ω@1kHz
- PTT Cycle: ≥100000
- IP57 protect



SM24N1-Ex

SM24N2-Ex

This product is designed with double PTT and rugged shape, providing stable operation when the user is wearing gloves and allowing it to be used as remote speaker microphone.

Specifications

- Speaker specifications
Sensitivity: 94±3dB@1kHz 1w 30cm
Rated power:1W Max power: 2W
Resistance: 20Ω±15%@1kHz
- Microphone specifications
Sensitivity: -50±4dB @1kHz 0dB=1v/pa
Impedance: 2200Ω@1kHz
- PTT Cycle: ≥100000
- IP57 protect



SM24N2-Ex

POA63-Ex

This product is designed with large-sized PTT, allowing it to be pressed by palm, elbow or firefighting water branch when the user is holding things with both hands.

Specifications

- PTT Cycle: ≥100000
- IP57 protect



POA63-Ex

Audio Accessory Jack	Product Model and Assembly					Applicable Radios	Remarks
	SM24N1-Ex	+	POA34-Ex	=	EBN10-Ex	PD79XEx,PD71XEx	ATEX Ex II 2G Ex ib IIC T4; II 2D Ex ib IIIC T135° C; Ta: -20° C...+55° C
			POA61-Ex		ELN09-Ex		
			POA62-Ex		ECN20-Ex		
	SM24N2-Ex	+	POA34-Ex	=	EBN11-Ex		
			POA61-Ex		ELN10-Ex		
			POA62-Ex		ECN21-Ex		
	POA63-Ex	+	POA34-Ex	=	EBN12-Ex		
			POA61-Ex		ELN11-Ex		
			POA62-Ex		ECN22-Ex		

Note: Customers can purchase SM24N1-Ex, SM24N2-Ex, POA63-Ex and POA34-Ex, POA61-Ex, POA62-Ex separately to assemble them into 9 different types of ear piece for different situations. Moreover, the detachable earpiece can provide the perfect solution for inventory management and quick response to customer demands.

1.1.11.2 Ex earset with On-Mic PTT

Swivel earset is the fashionable and comfortable-wearing earpiece designed for intrinsically safe radios. It is an economical and practical product for ex-protection situations in which large gloves and helmets are not needed.

Highlights

- » Complying with IIC standard and tailored for intrinsically safe radio;
- » Ergonomic design for long time wearing;
- » Spring type cable for convenient cable adjustment;
- » Environmental protecting PU cable containing bulletproof material Kevlar for reliable performance;
- » Environmental protecting TPE ear hook, flexible and no harm to skin.

Applications

For users who work in a location (such as a chemical plant) with explosive materials.



EHN12-Ex

Specifications

- Speaker specifications
Impedance: 150Ω±15%@1kHz
Sensitivity: 108±3dB@1kHz(Finish product)
Rated power: 50mW Max power:100mW
- Microphone specifications
Sensitivity: -50±4dB @1kHz 0dB=1v/pa
Impedance: ≤2.2kΩ@1kHz
Operation Voltage: 1~10vDC
- PTT Cycles: ≥100000

Applicable Radios List

Product Model	Applicable Radios	CQST Approved	Remarks
EHN12-Ex	PD700Ex,PD780Ex,PD790Ex,PT580H CQST	●	Ex ib IIC T4 Gb; Ex ibD 21 T4; Ta: -25° C...+65° C

1.1.12 Heavy duty, noise-canceling Headset

heavy duty noise-canceling headset allows you to listen syllabify in noisy environments, and also can protect your ears. It is fan ideal choice for users who work in noisy environments.

Highlights

- » Up to 25dB noise-canceling effect for better protection of ears in noisy environments;
- » Comfortable-wearing sponge ear cushions for better noise-canceling effect;
- » Adjustable headband for flexible wearing adjustment.

Applications

For users who work in noisy environments such as airport, harbor, wharf areas.

Specifications

- Speaker specifications
Sensitivity: 90dB±4dB/1W at 0.1m 1KHz
Rated power: 1W Max power:1.5W
Resistance: 2x8Ω±15%@1kHz
 - Microphone specifications
Sensitivity: -51±3dB@1kHz 3v 2.2k 0dB=1v/Pa
Pattern: Hyper Cardioid
 - PTT cycles≥100000
- *NRR 25dB noise-canceling rate please refer to page 28.*

Applicable Radios List

Audio Accessory Jack	Product Model	Applicable Radios	Remarks
	ECN18	PD70X,PD78X,PT580H,PT-580,PD70X(UL913), PD78X(UL913),PT580H (UL913),PD75X	
	ECN21	X1e,X1p,Z1p,PD60X,PD68X,X1p(UL913),PD66X	
	ECA01	MD78X, MD78X duplex mobile radio MT680(G1.5 or above)	



ECN18

NRR 25dB

Frequency	125	250	500	1000	2000	3150	4000	6300	8000
Average Noise-cancelling Rate	17.8	19.8	29.8	35.9	33.1	39.4	39	39.7	38.8
Standard Deviation	2.8	1.8	2.2	3	2.4	3.8	3.5	3.5	4.1

The test data is sourced from certificates issued by Michael & Associates (National Laboratory Voluntary Accreditation Program)

1.1.13 Remote Speaker Microphone

A remote speaker microphone allows you to listen and speak without removing the radio from your belt. It is an ideal choice for users who work outdoors.

Highlights

- » Easy use and compact body;
- » Affordability and high quality;
- » Ø3.5mm audio jack (for use with receive-only earpiece);
- » 360 degrees swivel metal clip.

Applications

For users (such as the traffic policeman) who work outdoors.

Specifications

- Speaker specifications
Sensitivity: 92±2db (1w/30cm)@ 300Hz-3KHz AVE;
Rated power: 1W Max. power: 2W;
Rated impedance: 16Ω±15% @ 2 kHz 1V
(variable with frequency and different model)
- Microphone specifications
Sensitivity: -40±3dB @1KHz (0dB = 1v/Pa)
Directionality: omni-directional
- Size: 74.0*58.0*30.0(mm)
- Weight: about 140g
- Operating temperature: -30° C~65° C

Applicable Radios List

Audio Accessory Jack	Product Model	Applicable Radios	Volume Control	LED illumination	Emergency
	SM08N1	TC-780M,TC3000,TC3600,TC3600M, TC-780,TC-880GM	○	○	○
	SM08M3	TC-700,TC-610,TC-620,TC-510, TC-446S,PD50X,PD56X,PD40X,PD41X	○	○	○



Remote Speaker Microphone
SM08M3

Audio Accessory Jack	Product Model	Applicable Radios	Volume Control	LED illumination	Emergency
	SM08M2	TC-500,TC-600,TC2100H,TC1600	○	○	○
	SM08K1	TC-268,TC-268S, TC-368S,T C-270,	○	○	○

Note:“○” indicates that the function is not available;“●” indicates that the function is available. Emergency shall be programmed.

Highlights

- » Compliant with IP55 requirements;
- » High/Low volume control ;
- » Ø3.5mm audio jack (for use with receive-only earpiece);
- » 360 degrees swivel metal clip;
- » High quality speaker and noise-canceling microphone enable high audio clarity in noisy environment.

Applications

For users in noisy locations (such as ports and construction sites).

Specifications

- Speaker specifications
Sensitivity: 91±3db (1w/30cm)@ 300Hz-3KHz AVE;
Rated power: 1W Max. power: 2W;
Rated impedance: 16Ω±15% @ 1.5 kHz 1V
(variable with frequency and different model)
- Microphone specifications
Sensitivity: -52±3dB @1KHz (0dB = 1v/Pa)
Directionality: unidirectional
- Size: 82.0*58.0*27.0(mm)
- Weight: about 141g
- Operating temperature: -30° C~65° C



Remote Speaker Microphone
SM13N5

Applicable Radios List

Audio Accessory Jack	Product Model	Applicable Radios	Volume Control	LED illumination	Emergency
	SM13N5	TC-780M, TC3000, TC3600, TC-780, TC-610P, TC-700P and TC-880GM	●	●	○
	SM13M1	TC-700, TC-610, TC-620, PD40X, PD41X	●	○	○

Note: “○” indicates that the function is not available; “●” indicates that the function is available. The Emergency function requires the firmware support.

Highlights

- » Rugged and durable ;
- » Compliant with IP67 requirements;
- » Emergency alarm capability;
- » Ø3.5mm audio jack (for use with receive-only earpiece);
- » 360 degrees swivel metal clip.

Applications

For users (such as the rescuer) who work under the adverse conditions.

Specifications

- Speaker specifications
Sensitivity: 90±3db (1w/30cm)@ 300Hz-3KHz AVE;
Rated power: 1W Max. power: 2W;
Rated impedance: 16Ω±15% @ 1.5 kHz 1V
(variable with frequency and different Model)
- Microphone specifications
Sensitivity: -42±2dB @1KHz (0dB = 1v/Pa)
Directionality: omni-directional
- Size: 86.3*62.1*43.8(mm)
- Weight: about 160g
- Operating temperature: -30° C~65° C



Remote Speaker Microphone (IP67)
SM18N2

Applicable Radios List

Audio Accessory Jack	Product Model	Applicable Radios	IP Protect	Earpiece jack	Emergency
	SM18N2	PD70X,PD78X,PD75X, PD70X(UL913),PD78X(UL913)	IP67	●	●
	SM18N3	PT580H	IP54	●	●
	SM18N5	PT580H,PT580,PT580H(UL913)	IP67	○	●

Note: “○” indicates that the function is not available; “●” indicates that the function is available. The Emergency function requires the firmware support.

Highlights

- » Compact and lightweight design, clear timbre;
- » Compliant with IP67 requirements;
- » Emergency alarm capability;
- » Ø3.5mm audio jack (for use with receive-only earpiece);
- » 360 degrees swivel metal clip.

Applications

For users (such as the rescuer) who work under the adverse conditions.

Specifications

- Speaker specifications
Sensitivity: 97±3dB (1w/30cm)@ 300Hz-3KHz AVE;
Rated power: 2W Max. power: 3W;
Rated impedance: 20Ω±15% @1.5kHz 1V (variable with frequency)
(Variable with Model)
- Microphone specifications
Sensitivity: -42±2dB @1KHz (0dB = 1v/Pa)
Directionality: omni-directional
- PTT cycles≥100000

Applications

For users (such as the rescuer) who work under the adverse conditions.



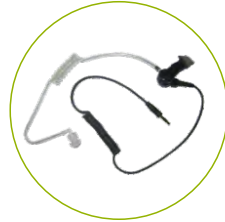
Remote Speaker Microphone
SM26N1



Receive-Only C Style
Earloop EH-01



Receive-Only Ajustable Earhook
with Swivel Speaker EH-02



Receive-Only Earpiece with
Transparent Acoustic Tube ES-02



Receive-Only Earbud
ES-01

Audio Accessory Jack	Product Model	Applicable Radios	IP Protect	Earpiece jack	Emergency
	SM26N1	X1e, X1p, PD60X, PD66X, PD68X, X1p(UL913), Z1p	IP67	○	●
	SM26N2	X1e, X1p, PD60X, PD66X, PD68X, X1p(UL913), Z1p	IP54	●	●
	SM26N3	PT580H, PD78X, PD70X, PD75X	IP67	○	●
	SM26N4	PT580H, PD78X, PD70X, PD75X	IP54	●	●
	SM26M1	PD50X, TC-700, PD56X, PD40X, PD41X	IP54	●	○

Highlights

- » Complying with requirements for intrinsic safety;
- » Easy operation and compact body;
- » $\Phi 2.5\text{mm}$ audio jack (for use with receive-only earpiece).

Applications

For users who work in a location (such as a chemical plant) with explosive materials.

Specifications

- Speaker specifications
Rated impedance: $16\Omega \pm 15\%$ @1.5kHz 1V;
Sensitivity: $92 \pm 2\text{dB}$ (1w/30cm)@ 300Hz-3KHz AVE;
Rated power: 1W Max. power: 2W;
Inductor: Max 80uH@10KHz



Intrinsically Safe Remote Speaker Microphone
SM08M1-Ex

- Microphone specifications
Sensitivity: $-42 \pm 3\text{dB}$ @1KHz (0dB = 1v/Pa) ;
Directionality: omni-directional
- Size: 74.0*58.0*30.0(mm)
- Weight: about 140g
- Operating temperature: $-30^{\circ}\text{C} \sim 65^{\circ}\text{C}$



Receive-Only Earpiece ESS01

Audio Accessory Jack	Product Model	Applicable Radios	Volume Control	LED illumination	Emergency
	SM08M1-Ex	TC-700ExPlus	○	○	○

Note: “○” indicates that the function is not available; “●” indicates that the function is available. The Emergency function requires the firmware support.

Highlights

- » Complying with requirements for intrinsic safety;
- » Easy operation and compact body;
- » IP57 protect and audio jack (for SM24N1-Ex and SM24N2-Ex).
- » IP67 for CQST, IP57 for ATEX/IEC/FM(SM18N4-Ex)

Applications

For users who work in a location (such as a chemical plant) with explosive materials.

Specifications

- Speaker specifications
Sensitivity: $90 \pm 3\text{dB}$ (1w/30cm)@ 300Hz-3KHz AVE;
Rated power: 1W Max. power: 2W;
Rated impedance: $20\Omega \pm 15\%$ @1.5kHz 1V (variable with frequency)
(Variable with Model)
- Microphone specifications
Sensitivity: $-42 \pm 2\text{dB}$ @1KHz (0dB = 1v/Pa)
Directionality: omni-directional
- PTT cycles ≥ 100000



Intrinsically Safe Remote Speaker Microphone
SM18N4-Ex

Applicable Radios List

Audio Accessory Jack	Product Model	Applicable Radios	ATEX	FM	CQST	IEC	Remarks
	SM18N4-Ex	PD79XEx,PD71XEx, PD780Ex, PD700Ex	●	●	●	●	
	SM24N1-Ex	PD79XEx,PD71XEx	●	○	○	○	
	SM24N2-Ex	PD79XEx,PD71XEx	●	○	○	○	

Remarks: SM24N 1-Ex and SM24N2-Ex can adapt with receive only earpiece to meet ATEX standards, please refer to the Ex earpiece chapter.

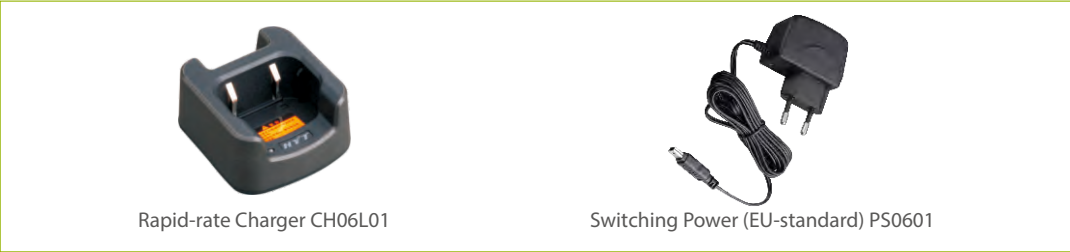
1.2 Power Devices

Chargers are conducive to optimizing battery life and operating time.
Please use original devices specified by Hytera only.

1.2.1 Chargers

Our chargers have multi-level protection mechanism, helping you ward off potential charging risks.

► Conventional Series



Highlights

Capable of protecting against short circuit, overvoltage and overcurrent.

Supported Battery

Li-Ion & Li-Polymer battery

Specifications

Input: 5VDC 0.6A
Charge current: 550mA
Operating temperature: 0° C~40° C

Applicable Radio

TC-310

The switching power may vary in different countries or areas:

PS0604	CN-standard (input: 100-240VAC, output: 5VDC/600mA)
PS0601	EU-standard (input: 100-240VAC, output: 5VDC/600mA)
PS0602	US/JP-standard (input: 100-240VAC, output: 5VDC/600mA)
PS0603	UK-standard (input: 100-240VAC, output: 5VDC/600mA)
PS0605	KR-standard (input: 100-240VAC, output: 5VDC/600mA)
PS0607	AU-standard (input: 100-240VAC, output: 5VDC/600mA)



Rapid-rate Charger CH05L01



Switching Power (EU-standard) PS0601

Highlights

Capable of protecting against short circuit, overvoltage and overcurrent.

Supported Battery

Li-Ion & Li-Polymer battery

Specifications

Input: 5VDC 0.6A
Charge current: 600mA
Operating temperature: 0° C~40° C

Applicable Radio

TC-320

The switching power may vary in different countries or areas:

PS0604	CN-standard (input: 100-240VAC, output: 5VDC/600mA)
PS0601	EU-standard (input: 100-240VAC, output: 5VDC/600mA)
PS0602	US/JP-standard (input: 100-240VAC, output: 5VDC/600mA)
PS0603	UK-standard (input: 100-240VAC, output: 5VDC/600mA)
PS0605	KR-standard (input: 100-240VAC, output: 5VDC/600mA)
PS0607	AU-standard (input: 100-240VAC, output: 5VDC/600mA)



Rapid-rate Charger CH10L19



Switching Power (EU-standard) PS1018

Highlights

Capable of protecting against short circuit, overvoltage and overcurrent.

Supported Battery

Li-Ion & Li-Polymer battery

Specifications

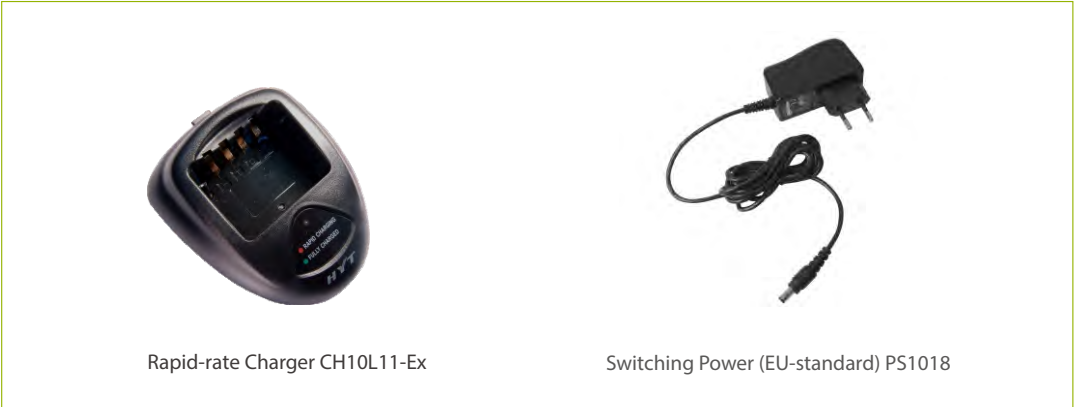
Input: 12VDC 1A
Charge current: 800mA
Operating temperature: 0° C~40° C

Applicable Radio

TC-446S, TC-510, TC-508, TC-518, TC-580,
POWER245

The switching power may vary in different countries or areas:

PS1026	CN-standard (input: 100-240VAC, output: 12VDC/1A)
PS1018	EU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1014	US-standard (input: 100-240VAC, output: 12VDC/1A)
PS1016	UK-standard (input: 100-240VAC, output: 12VDC/1A)
PS1017	AU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1025	KR-standard (input: 100-240VAC, output: 12VDC/1A)
PS1027	JP-standard (input: 100-240VAC, output: 12VDC/1A)



Rapid-rate Charger CH10L11-Ex

Switching Power (EU-standard) PS1018

Highlights

Capable of protecting against short circuit, overvoltage and overcurrent.

Supported Battery

Li-Ion battery

Specifications

Input: 12VDC 1A
Charge current: 850mA
Operating temperature: 0° C~40° C

Applicable Radio

TC-700ExPlus

The switching power may vary in different countries or areas:

PS1026	CN-standard (input: 100-240VAC, output: 12VDC/1A)
PS1018	EU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1014	US-standard (input: 100-240VAC, output: 12VDC/1A)
PS1016	UK-standard (input: 100-240VAC, output: 12VDC/1A)
PS1017	AU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1025	KR-standard (input: 100-240VAC, output: 12VDC/1A)
PS1027	JP-standard (input: 100-240VAC, output: 12VDC/1A)

MCU Series

Incorporating a digital IC chip, MCU charger can adopt battery-specific charging program automatically and adjust the charging pattern as the change in battery voltage and temperature.



MCU Dual-unit Charger CH10L13

Switching Power (EU-standard) PS1018

Specifications

Input: 12VDC 1A
Charge current: 1000mA
Operating temperature: 0° C~40° C

Supported Battery

Li-Ion battery

Applicable Radio

PT580

The switching power may vary in different countries or areas:

PS1026	CN-standard (input: 100-240VAC, output: 12VDC/1A)
PS1018	EU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1014	US-standard (input: 100-240VAC, output: 12VDC/1A)
PS1016	UK-standard (input: 100-240VAC, output: 12VDC/1A)
PS1017	AU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1025	KR-standard (input: 100-240VAC, output: 12VDC/1A)
PS1027	JP-standard (input: 100-240VAC, output: 12VDC/1A)



Specifications

Input: 12VDC 1A
Charge current: 1000mA
Operating temperature: 0° C~40° C

Supported Battery

Li-Ion, Li-Polymer,
Ni-MH and Ni-Cd battery

Applicable Radio

PT580H, PD70X,
PD78X, PD70X(UL913),
PD78X(UL913), PD79X Ex,
PD71X Ex

Specifications

Input: 12VDC 1A
Charge current: 850mA
Operating temperature: 0° C~40° C

Supported Battery

Li-Ion, Ni-MH
and Ni-Cd battery

Applicable Radio

TC-700, TC-700P,
TC-780M, TC-700Ex,
TC-780

The switching power may vary in different countries or areas:

PS1026	CN-standard (input: 100-240VAC, output: 12VDC/1A)
PS1018	EU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1014	US-standard (input: 100-240VAC, output: 12VDC/1A)
PS1016	UK-standard (input: 100-240VAC, output: 12VDC/1A)
PS1017	AU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1025	KR-standard (input: 100-240VAC, output: 12VDC/1A)
PS1027	JP-standard (input: 100-240VAC, output: 12VDC/1A)

The switching power may vary in different countries or areas:

PS1026	CN-standard (input: 100-240VAC, output: 12VDC/1A)
PS1018	EU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1014	US-standard (input: 100-240VAC, output: 12VDC/1A)
PS1016	UK-standard (input: 100-240VAC, output: 12VDC/1A)
PS1017	AU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1025	KR-standard (input: 100-240VAC, output: 12VDC/1A)
PS1027	JP-standard (input: 100-240VAC, output: 12VDC/1A)



Specifications

Input: 12VDC 1A
Charge current: 1000mA
Operating temperature: 0° C~40° C

Supported Battery

Li-Ion battery

Applicable Radio

TC-880GM

Specifications

Input: 12VDC 1A
Charge current: 1000mA
Operating temperature: 0° C~40° C

Supported Battery

Li-Ion, Li-Polymer,
Ni-MH and Ni-Cd battery

Applicable Radio

TC-610, TC-620,
TC-610P, POWER446

The switching power may vary in different countries or areas:

PS1026	CN-standard (input: 100-240VAC, output: 12VDC/1A)
PS1018	EU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1014	US-standard (input: 100-240VAC, output: 12VDC/1A)
PS1016	UK-standard (input: 100-240VAC, output: 12VDC/1A)
PS1017	AU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1025	KR-standard (input: 100-240VAC, output: 12VDC/1A)
PS1027	JP-standard (input: 100-240VAC, output: 12VDC/1A)

The switching power may vary in different countries or areas:

PS1026	CN-standard (input: 100-240VAC, output: 12VDC/1A)
PS1018	EU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1014	US-standard (input: 100-240VAC, output: 12VDC/1A)
PS1016	UK-standard (input: 100-240VAC, output: 12VDC/1A)
PS1017	AU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1025	KR-standard (input: 100-240VAC, output: 12VDC/1A)
PS1027	JP-standard (input: 100-240VAC, output: 12VDC/1A)



Specifications

Input: 12VDC 1A
Charge current: 850mA
Operating temperature: 0° C~40° C

Supported Battery

Li-Ion battery

Applicable Radio

TC-600, TC2100H

Specifications

Input: 12VDC 1A
Charge current: 850mA
Operating temperature: 0° C~40° C

Supported Battery

Ni-MH & Ni-Cd battery

Applicable Radio

TC-268S, TC-368S,
TC-265, TC-365,
TC-270

The switching power may vary in different countries or areas:

PS1026	CN-standard (input: 100-240VAC, output: 12VDC/1A)
PS1018	EU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1014	US-standard (input: 100-240VAC, output: 12VDC/1A)
PS1016	UK-standard (input: 100-240VAC, output: 12VDC/1A)
PS1017	AU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1025	KR-standard (input: 100-240VAC, output: 12VDC/1A)
PS1027	JP-standard (input: 100-240VAC, output: 12VDC/1A)

The switching power may vary in different countries or areas:

PS1026	CN-standard (input: 100-240VAC, output: 12VDC/1A)
PS1018	EU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1014	US-standard (input: 100-240VAC, output: 12VDC/1A)
PS1016	UK-standard (input: 100-240VAC, output: 12VDC/1A)
PS1017	AU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1025	KR-standard (input: 100-240VAC, output: 12VDC/1A)
PS1027	JP-standard (input: 100-240VAC, output: 12VDC/1A)



Specifications

Input: 12VDC 1A
Charge current: 850mA
Operating temperature: 0° C~40° C

Supported Battery

Ni-MH & Ni-Cd battery

Applicable Radio

TC-446,TC-500

The switching power may vary in different countries or areas:

PS1026	CN-standard (input: 100-240VAC, output: 12VDC/1A)
PS1018	EU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1014	US-standard (input: 100-240VAC, output: 12VDC/1A)
PS1016	UK-standard (input: 100-240VAC, output: 12VDC/1A)
PS1017	AU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1025	KR-standard (input: 100-240VAC, output: 12VDC/1A)
PS1027	JP-standard (input: 100-240VAC, output: 12VDC/1A)



Specifications

Input: 7.2—8.4VDC
Charge current: 300mA
Operating temperature: 0° C~40° C

Supported Battery

Li-Ion, Li-Polymer battery

Applicable Radio

X1e, X1p, X1p(UL913),
Z1p



Dual Pocket MCU Charger CH10L16



Switching Power (EU-standard) PS1018

Specifications

Input: 12VDC 1A

Charge current: A single charging 700mA; two pockets at the same time when charging,
The host pocket 700mA,the battery pocket 300mA.

Operating temperature: 0° C~40° C

Supported Battery

Li-Ion, Li-Polymer battery

Applicable Radio

X1e, X1p, X1p(UL913),
Z1p

The switching power may vary in different countries or areas:

PS1026	CN-standard (input: 100-240VAC, output: 12VDC/1A)
PS1018	EU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1014	US-standard (input: 100-240VAC, output: 12VDC/1A)
PS1016	UK-standard (input: 100-240VAC, output: 12VDC/1A)
PS1017	AU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1025	KR-standard (input: 100-240VAC, output: 12VDC/1A)
PS1027	JP-standard (input: 100-240VAC, output: 12VDC/1A)



Dual Pocket MCU Charger Kit CH10A06



Switching Power (US-standard) PS2002

Specifications

Input: 12VDC 2A

Charge current: 850mA

Operating temperature: 0° C~40° C

Supported Battery

Li-Ion, Li-Polymer,
Ni-MH and Ni-Cd battery

Applicable Radio

PD50X,PD56X, PD60X, PD66X, PD68X PT580H(UL913), PT580H, PD70X, PD78X, PD75X, PD70X(UL913), PD78X(UL913),
PD71Ex, PD79X Ex

The switching power may vary in different countries or areas:

PS2002	US-standard (input: 100-240VAC, output: 12VDC/2A)
PS2003	CN-standard (input: 100-240VAC, output: 12VDC/2A)
PS2004	UK-standard (input: 100-240VAC, output: 12VDC/2A)
PS2005	EU-standard (input: 100-240VAC, output: 12VDC/2A)
PS2006	AU-standard (input: 100-240VAC, output: 12VDC/2A)



General MCU Rapid-rate Charger CH10A07



Switching Power (EU-standard) PS1018

Specifications

Input: 12VDC 1A
Charge current: 1000mA
Operating temperature: 0° C~40° C

Supported Battery

Li-Ion, Li-Polymer,
Ni-MH and Ni-Cd battery

Applicable Radio

PD50X, PD56X,
PD60X, PD66X, PD68X
PD70X, PD78X, PD75X
PT580H(UL913), PD70X(UL913),
PD78X(UL913)

The switching power may vary in different countries or areas:

PS1026	CN-standard (input: 100-240VAC, output: 12VDC/1A)
PS1018	EU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1014	US-standard (input: 100-240VAC, output: 12VDC/1A)
PS1016	UK-standard (input: 100-240VAC, output: 12VDC/1A)
PS1017	AU-standard (input: 100-240VAC, output: 12VDC/1A)
PS1025	KR-standard (input: 100-240VAC, output: 12VDC/1A)
PS1027	JP-standard (input: 100-240VAC, output: 12VDC/1A)



Rapid-rate Charger CH10L20



Switching Power (EU-standard) PS1031

Specifications

Input: 5VDC 1A
Charge current: 800mA
Operating temperature: 0° C~40° C

Supported Battery

Li-Ion, Li-Polymer battery

Applicable Radio

PD35X, PD36X, PD37X

The switching power may vary in different countries or areas:

PS1029	CN-standard (input: 100-240VAC, output: 5VDC/1A)
PS1031	EU-standard (input: 100-240VAC, output: 5VDC/1A)
PS1030	US-standard (input: 100-240VAC, output: 5VDC/1A)
PS1032	UK-standard (input: 100-240VAC, output: 5VDC/1A)
PS1033	AU-standard (input: 100-240VAC, output: 5VDC/1A)
PS1034	KR-standard (input: 100-240VAC, output: 5VDC/1A)

1.2.2 Six-unit Chargers

This kind of charger allows you to charge six batteries or six radios with battery attached simultaneously, bringing you a set of benefits including high charging efficiency, extended battery life and flexible installation.

Conventional Six-unit Charger

Highlights

- » Capable of charging six batteries or six radios with batteries attached simultaneously;
- » Auto selection of charging program based on battery type;
- » Intelligently monitoring the charging process;
- » Equipped with multiple charging protection mechanisms;
- » Available for wall and desktop installation;
- » Switching power and power cord (variable in different countries or areas.) included in the kit.

Six-unit Charger MCA02/MCA03/MCN05

Applications

Hospitality, retailing and other industries where intense charging services are required.

Specifications

- Input voltage: 12V/7A
- Charge current: 850mA (per pocket)
- Size: 474.5*107.3*65.9 (mm)
- Weight: about 1.5Kg

Applicable Radios List

Model	Applicable Radios	Supported Battery	Charging Duration
MCA02	TC-700,TC-780, TC-700P, TC-780M, TC-700Ex	Li-Ion, Li-Polymer, Ni-MH and Ni-Cd battery	1700mAh battery: About 3 hours 2100mAh battery: About 3.5 hours
MCA03	TC-610, TC-620, TC-610P	Li-Ion, Li-Polymer, Ni-MH and Ni-Cd battery	1200mAh battery: About 2 hours 2000mAh battery: About 3.5 hours
MCN05	TC-500, TC-446, TC-2100H	Ni-MH and Ni-Cd battery	1000mAh battery: About 1.5 hours



Six-unit Charger
MCA02

Six-unit Charger MCA08

Supported Battery

Li-Ion, Li-Polymer battery, Ni-MH, Ni-Cd

Specifications

- Input: 12VDC 7A
- Charge current: 1000mA (per pocket)
- Operating temperature: 0° C~40° C
- Size: 564.5*119.2*64.3 (mm)

Applications

- Capable of charging six batteries or six radios with batteries attached simultaneously
- Equipped with multiple charging protection mechanisms
- Available for wall and desktop installation

Applicable Radio

PD40X,PD41X,PD50X, PD56X, PD60X, PD66X, PD68X, PT580H, PD70X, PD78X, PD75X, PD70X(UL913), PD78X(UL913), PD71XEx, PD79XEx, PT580H(UL913)



Six-unit Charger
MCA08

Six-unit Charger MCA10

Supported Battery

Li-Ion, Li-Polymer battery

Specifications

- Input: 12VDC 7A
- Charge current: 1000mA (per pocket)
- Operating temperature: 0° C~40° C
- Size: 564.5*119.2*64.3 (mm)

Applications

- Capable of charging six batteries or six radios with batteries attached simultaneously
- Equipped with multiple charging protection mechanisms
- Available for wall and desktop installation

Applicable Radio

X1e, X1p, X1p(UL913), Z1p



Six-unit Charger
MCA10

Battery Optimizing System

Highlights

- » Workable with different radios by replacing the pocket (sold separately);
- » Able to charge six batteries or six radios with batteries attached simultaneously;
- » Easy access to battery information with the LCD;
- » Able to recondition battery, detect the battery single use time and cycle times;
- » Charging/discharging and battery capacity detection;
- » Protection against overtemperature, overvoltage and overcurrent;

Applications

For government agency, radio service center and radio rental shop where battery maintenance services are required.

Specifications

- Input: 12VDC 7A
- Charge current: 1000mA (per pocket)
- Size: 524.0*218.0*103.0 (mm)
- Weight: 1.8Kg
- Operating temperature: 0° C~40° C

Applicable Radios List

Model	Applicable Radios
MCA05	PT580H, PT580H(UL913), PD70X, PD78X, PD75X, PD700Ex, PD780Ex, PD79X Ex, PD50X, PD56X, PD60X, PD66X, PD68X, PD70X(UL913), PD78X(UL913)
MCA05-X	X1e, X1p, X1p(UL913), Z1p
MCA05-A1	TC-700,TC-780, TC-700P, TC-780M,TC-700 Ex
MCA05-A2	TC-446S, TC-510, TC-508, TC-518, TC-560, TC-580, POWER245
MCA05-A3	TC-610, TC-620, POWER446, TC-610P
MCA05-G1	TC-880GM, TC-890GM



MCA05

1.2.3 Switching Power

Six-unit Switching Power

Consisting of a switching power and a junction box, this device can work as a multi-unit charger by connecting 6 desktop chargers with the same specifications (Input: 12VDC/1A) , saving your space and improving charging efficiency.



Six-unit Switching Power
PS7002



Application Demo

Highlights

- » Capable of overvoltage, overcurrent and short circuit protection;
- » Compatible with most of our radios.

Applications

Hospitality, retailing, property management and other industries where intense communication activities are present.

Applicable Radios List

Model	Output	Requirement	Applicable Radios
PS7002	12VDC/7A	Work with a charger	TC-268S, TC-368S, TC-270, TC-518, TC-600, TC2110, TC2108, TC-700, TC-780M, TC3000, TC3600, TC-610, TC-620, TC-780, TC-700P, TC-610P, TC-880GM, TC-580, TC-446S, POWER446, TC-508, PD78X(G), PD70X(G), PT580H, PT580, X1e, X1p, X1p(UL913), PD50X, PD56X, PD60X, PD66X, PD68X, PD75X, PD70X(UL913), PD78X(UL913), PD71XEx and PD79XEx
PS4001	5VDC/4A	Work with a charger or radio	TC-320,TC-310

Vehicle Power Adapter

Powered by the vehicle lighter, this device can operate with a desktop charger to charge your battery, giving sufficient power to your outdoor work with easy operation and sound reliability.



Vehicle Power Adapter CHV09



Vehicle Power Adapter PV1002

Highlights

- » Voltage input: 11V~25VDC
- » Voltage Output:11.4-12.6VDC/1A(CHV09)5VDC/1A(PV1002)
- » Capable of overvoltage and overcurrent protection.

Applications

Users who drive to work outdoors.

Applicable Radios List

Model	Output	Requirement	Applicable Radios
CHV09	12VDC/1A	Work with a charger	TC-268S, TC-368S, TC-270,TC-518, TC-600, TC2110, TC2108, TC-700, TC-780M, TC3000, TC3600, TC-610, TC-620, TC-780, TC-700P, TC-610P, TC-880GM, TC-580, TC-446S, POWER446, TC-508, PD78X , PD70X, PT580H, PT580, X1e, X1p, X1p(UL913), PD50X, PD56X, PD60X, PD66X, PD68X, PD75X, PD70X(UL913), PD78X(UL913), PD71XEx ,PD79XEx
Pv1002	5VDC/1A	Work with a charger or radio	PD35X,PD36X,PD37X,SM27W1

5V/1A Switching Power



Switching Power (EU-standard) PS1031

Specifications

Input: 5VDC/1A
Operating temperature: 0° C~40° C

Applicable Radio

PD35X, PD36X, PD37X

The switching power may vary in different countries or areas:

PS1029	CN-standard (input: 100-240VAC, output: 5VDC/1A)
PS1031	EU-standard (input: 100-240VAC, output: 5VDC/1A)
PS1030	US-standard (input: 100-240VAC, output: 5VDC/1A)
PS1032	UK-standard (input: 100-240VAC, output: 5VDC/1A)
PS1034	KR-standard (input: 100-240VAC, output: 5VDC/1A)
PS1033	AU-standard (input: 100-240VAC, output: 5VDC/1A)

1.3 Batteries

Certified by rigorous environmental and life test, our batteries can facilitate your radio performance.

For Business Radios



BL1716

Nominal capacity	1700mAh
Battery type	Li-ion
Nominal voltage	3.7V
Applicable radio	TC-310
Operating time (5/5/90)	>10.0h (variable with frequency)
Life cycle	≥ 400 times
Size	86.0*48.0*16.0 (mm)
Weight	about 57.0g
Operating temperature	0~40° C(charge)/-20~60° C(discharge)



BL1715

Nominal capacity	1700mAh
Battery type	Li-ion
Nominal voltage	3.7V
Applicable radio	TC-320
Operating time (5/5/90)	>10.0h (variable with frequency)
Life cycle	≥ 400 times
Size	53.5*34.2*10.7 (mm)
Weight	about 36.5g
Operating temperature	0~40° C(charge)/-20~60° C(discharge)



BH1102

Nominal capacity	1100mAh
Battery type	Ni-MH
Nominal voltage	7.2V
Applicable radios	TC-268S, TC-368S, TC-265, TC-365
Operating time (5/5/90)	about 8.0h (variable with frequency)
Life cycle	≥ 400 times
Size	110.0*58.5*17.4 (mm)
Weight	about 5.9 oz
Operating temperature	0~40° C(charge)/-20~60° C(discharge)



BH1502

Nominal capacity	1500mAh
Battery type	Ni-MH
Nominal voltage	7.2V
Applicable radios	TC-268S, TC-368S, TC-265,TC-365
Operating time (5/5/90)	about 10.0h (variable with frequency)
Life cycle	≥ 400 times
Size	110.0*58.5*17.4 (mm)
Weight	about 190.3g
Operating temperature	0~40° C(charge)/-20~60° C(discharge)



BH1104

Nominal capacity	1100mAh
Battery type	Ni-MH
Nominal voltage	6.0V
Applicable radio	TC-500
Operating time (5/5/90)	about 8.0h (variable with frequency)
Life cycle	≥ 400 times
Size	93.0*54.2*19.7 (mm)
Weight	about 134.5g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)



BL1719

Nominal capacity	1650mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	TC-518, TC-580,TC-446S ,TC-508
Operating time (5/5/90)	>12.0h (variable with frequency)
Life cycle	≥ 400 times
Size	91.8*53.7*18.5 (mm)
Weight	about 101.3g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)



BH1302

Nominal capacity	1300mAh
Battery type	Ni-MH
Nominal voltage	6.0V
Applicable radio	TC-500
Operating time (5/5/90)	about 9.0h (variable with frequency)
Life cycle	≥ 400 times
Size	93.0*54.2*19.7 (mm)
Weight	about 141g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)



BL1301

Nominal capacity	1300mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	TC-510, TC-446S ,TC-508
Operating time (5/5/90)	>10.0h (variable with frequency)
Life cycle	≥ 400 times
Size	91.8*53.7*16.0 (mm)
Weight	about 87.8g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)



BL1203

Nominal capacity	1250mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radio	TC-600
Operating time (5/5/90)	>9.0h (variable with frequency)
Life cycle	≥ 400 times
Size	98.9*54.2*18.9 (mm)
Weight	about 91.0g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)



BL2001

Nominal capacity	2000mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	TC-610, TC-620, TC-610P, POWER446
Operating time (5/5/90)	>14.0h (variable with frequency)
Life cycle	≥ 400 times
Size	102.0*55.0*19.0 (mm)
Weight	about 118.3g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP56



BL1703

Nominal capacity	1700mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	TC-700 and TC-700P (belt clip BC08 required) TC-780 and TC-780M (belt clip BC19 required)
Operating time (5/5/90)	>12.0h (variable with frequency)
Life cycle	≥ 400 times
Size	107.0*54.0*17.0 (mm)
Weight	about 126. 0g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)



BL2102

Nominal capacity	2100mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	TC-700, TC-780, TC-780M and TC-700P (belt clip BC09 required)
Operating time (5/5/90)	>12.0h (variable with frequency)
Life cycle	≥ 400 times
Size	107.0*54.0*20.0 (mm)
Weight	about 135.8g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)



BL1204

Nominal capacity	1200mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	TC-610, TC-620, TC-610P, POWER446
Operating time (5/5/90)	>9.0h (variable with frequency)
Life cycle	≥ 400 times
Size	102.0*55.0*16.0 (mm)
Weight	about 87.0g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP56



BL2009

Nominal capacity	2000mAh
Battery type	Li-Ion
Nominal voltage	3.7V
Applicable radio	PD35X, PD36X and PD37X
Operating time (5/5/90)	>10.0h for analog mode or > 12.0h for digital mode (variable with frequency)
Life cycle	≥ 500 times
Size	69*38.6*7(mm)
Weight	about 37g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)



BL1806

Nominal capacity	1800mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radio	PT580H
Operating time (5/5/90)	>16.0h (variable with frequency)
Life cycle	≥ 500 times
Size	114.3*56.2*18.3 (mm)
Weight	about 115g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP67



BL2505

Nominal capacity	2500mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radio	PT580H
Operating time (5/5/90)	>21.0h (variable with frequency)
Life cycle	≥ 500 times
Size	114.13*55.77*25.48(mm)
Weight	about 150g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP67

For Professional Radios



BL2010

Nominal capacity	2000mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	PD60X,PD66X,PD68X, PD50X, PD56X and PD40X,PD41X
Operating time (5/5/90)	>15.3h for analog mode or > 20.2h for digital mode (variable with frequency)
Life cycle	≥ 500 times
Size	84.2*52.6*18.2(mm)
Weight	about 102g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP67



BL2008

Nominal capacity	2000mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	PD70X, PD78X, PD75X
Operating time (5/5/90)	>10.5h for analog mode or > 14.0h for digital mode (variable with frequency)
Life cycle	≥ 500 times
Size	106.4*56.3*18.4 (mm)
Weight	about 115.0g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP67



BL1401

Nominal capacity	1400mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	X1e, X1p and Z1P
Operating time (5/5/90)	>10.2h for analog mode or > 12.7h for digital mode (variable with frequency)
Life cycle	≥ 500 times
SIZE	77.40*55.50*9.63(MM)
WEIGHT	ABOUT 80.8G
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP67



BL1809

Nominal capacity	1800mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	X1e, X1p and Z1P
Operating time (5/5/90)	>12h for analog mode or > 15h for digital mode (variable with frequency)
Life cycle	≥ 500 times
Size	77.40*55.50*14.20(mm)
Weight	about 101g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP67



BL2503

Nominal capacity	2500mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	PD70X, PD78X, PD75X
Operating time (5/5/90)	>13.0h for analog mode or > 17.0h for digital mode (variable with frequency)
Life cycle	≥ 500 times
Size	106.4*56.3*24.3 (mm)
Weight	about 145g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP67



BL1103

Nominal capacity	1100mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	X1e, X1p and Z1P
Operating time (5/5/90)	>8h for analog mode or > 10.0h for digital mode (variable with frequency)
Life cycle	≥ 500 times
Size	77.40*55.50*7.76(mm)
Weight	about 64g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP67



BL1504

Nominal capacity	1500mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	PD60X,PD66X,PD68X, PD50X, PD56X and PD40X,PD41X
Operating time (5/5/90)	>11.5h for analog mode or > 16h for digital mode (variable with frequency)
Life cycle	≥ 500 times
Size	84.2*52.6*14.1(mm)
Weight	about 83g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP67



BL1718

Nominal capacity	1700mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	TC-720G, TC-720S and TC-3000G
Operating time (5/5/90)	>10.5h (variable with frequency)
Life cycle	≥ 400 times
Size	114.4*56.4*21.0(mm)
Weight	about 113. 5g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)



BL2407

Nominal capacity	2400mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	TC-510, TC-446S
Operating time (5/5/90)	>17.5h (variable with frequency)
Life cycle	≥ 400 times
Size	91.8*53.2*22.4(mm)
Weight	about 134.0g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)



BL2007

Nominal capacity	2000mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	TC-610, TC-620
Operating time (5/5/90)	>12.7h (variable with frequency)
Life cycle	≥ 400 times
Size	102.0*55.3*19.0(mm)
Weight	about 118.3g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP56



BL2504

Nominal capacity	2500mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	TC-700, TC-780, TC-780M and TC-700P (belt clip BC09 required)
Operating time (5/5/90)	>17.6h (variable with frequency)
Life cycle	≥ 400 times
Size	107.0*54.0*22.0(mm)
Weight	about 140.0g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)



BL3001

Nominal capacity	3000mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	PD70X, PD78X ,PD75X
Operating time (5/5/90)	>16h for analog mode or > 20h for digital mode (variable with frequency)
Life cycle	≥ 500 times
Size	106.4*56.3*24.3(mm)
Weight	about 150g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP67

For Ex-protection Radios



BL1703-Ex

Nominal capacity	1700mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radio	TC-700ExPlus
Operating time (5/5/90)	>14.0h (variable with frequency)
Life cycle	≥ 400 times
Size	115.7*56.6*22.3 (mm)
Weight	about 160.5g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
Certified by	ATEX and FM



BL2412-Ex

Nominal capacity	2400mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radio	PT580H (UL913)
Operating time (5/5/90)	>20h for digital mode (variable with frequency)
Life cycle	≥ 500 times
Size	114.1*55.8*25.5 (mm)
Weight	about 154.5g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP67
Certified by	UL913、CQST



BL1807-Ex

Nominal capacity	1800mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	PD71X Ex and PD79X Ex
Operating time (5/5/90)	>10.5h for analog mode or > 14h for digital mode (variable with frequency)
Life cycle	≥ 500 times
Size	120.5*58*20.6(mm)
Weight	about 174g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP67
Certified by	ATEX 、CQST



BL2409-Ex

Nominal capacity	2400mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	PD700 Ex and PD780 Ex
Operating time (5/5/90)	>12h for analog mode or > 15h for digital mode (variable with frequency)
Life cycle	≥ 500 times
Size	106.40*56.10*24.30(mm)
Weight	about 150g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP67
Certified by	CQST



BL2411-Ex

Nominal capacity	2400mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	PD70X (UL913) and PD78X (UL913)
Operating time (5/5/90)	>14h for analog mode or > 16.5h for digital mode (variable with frequency)
Life cycle	≥ 500 times
Size	106.4*56.3*24.3 (mm)
Weight	about 153.5g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP67
Certified by	UL913、CQST



BL1402-EX

Nominal capacity	1400mAh
Battery type	Li-ion
Nominal voltage	7.4V
Applicable radios	X1p (UL913)
Operating time (5/5/90)	>10h for analog mode or > 12h for digital mode (variable with frequency)
Life cycle	≥ 500 times
Size	77.4*55.5*14.23 (mm)
Weight	about 98g
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP67
Certified by	UL913

For Repeater Radios



PV3001

Nominal capacity	10Ah
Battery type	Li-ion
Nominal voltage	14.8V
Applicable radio	RD96X
Operating time (50% cycle work, high power)	>8h (variable with frequency)
Life cycle	≥ 500 times
Size	235*159*34 (mm)
Weight	about 1.5kg
Operating temperature	0~45° C(charge)/-20~60° C(discharge)
IP class	IP67

1.4 Carry Accessories

The combined use of audio and carry accessories can enhance the portability and accessibility of your radio. By taking actual requirements into account, we provide a package of helpful accessories, including carry case, chest pack, waterproof bag, belt clip, strap and the like.

1.4.1 Carrying Case

The case is made of leather, PU or nylon, meeting the actual requirement of users at all levels.

► Leather Case

This kind of case features remarkable wearability. It can defend your radio against scrape or scratch on the move.

LCY003



Highlights

- » Soft leather makes it comfortable to wear;
- » D-type buckle and rotatable belt loop enables you to install the case easily (just by rotating the radio);
- » The standard nylon strap gives you more flexibility in how it is worn.

Specifications

- Material: cowhide
- Size: 132.0*58.0*47.0 (mm)
- Weight: about 146.0g
- Operating Temperature: -40~55° C

Applicable Radio

PD70X , PD78X , PT580H
(adapt standard battery)

LCY006



Highlights

- » Soft leather makes it comfortable to wear;
- » D-type buckle and rotatable belt loop enable you to install the case easily (just by rotating the radio);
- » The standard nylon strap gives you more flexibility in how it is worn.

Specifications

- Material: cowhide
- Size: 135*65*54 (mm)
- Weight: about 160.0g
- Operating Temperature: -40~55° C

Applicable Radio

PD70X (UL913), PD78X (UL913)
PD70X and PD78X(adapt 2500mAh battery)

LCY005



Highlights

- » Soft leather makes it comfortable to wear;
- » D-type buckle and rotatable belt loop enable you to install the case easily (just by rotating the radio);
- » The standard nylon strap gives you more flexibility in how it is worn.

Specifications

- Material: cowhide
- Size: 155*65*54 (mm)
- Weight: about 150.0g
- Operating Temperature: -40~55° C

Applicable Radio

PD71X Ex and PD79X Ex

LCY007



Highlights

- » Soft leather makes it comfortable to wear;
- » D-type buckle and rotatable belt loop enable you to install the case easily (just by rotating the radio);
- » The standard nylon strap gives you more flexibility in how it is worn.
- » Certified by: CQST

Specifications

- Material: cowhide
- Size: 135*65*54 (mm)
- Weight: about 160.0g
- Operating Temperature: -40~55° C

Applicable Radio

PT580H(CQST)

LCY002



Highlights

- » Soft leather makes it comfortable to wear;
- » D-type buckle and rotatable belt loop enable you to install the case easily (just by rotating the radio);
- » The standard nylon strap gives you more flexibility in how it is worn.

Specifications

- Material: cowhide
- Size: 132.0*62.0*38.0 (mm)
- Weight: about 150.0g
- Operating Temperature: -40~55° C

Applicable Radio

PT580

LCBN41



Highlights

- » Soft leather makes it comfortable to wear;
- » D-type buckle and rotatable belt loop enable you to install the case easily (just by rotating the radio);
- » The standard nylon strap gives you more flexibility in how it is worn.
- » Certified by: CQST

Specifications

- Material: cowhide
- Size: 130.0*68.5*48.5 (mm)
- Weight: about 215.0g
- Operating Temperature: -40~55° C

Applicable Radio

TC-700 (with 1700mAH Li-Ion battery)

LCBY22



Highlights

- » Tough leather ensures you remarkable wearability;
- » D-type buckle and rotatable belt loop enable you to install the case easily (just by rotating the radio);
- » The standard nylon strap gives you more flexibility in how it is worn.

Specifications

- Material: cowhide
- Size: 130.0*71.0*56.0 (mm)
- Weight: about 214.0g
- Operating Temperature: -40~55° C

Applicable Radio

TC-780M , TC-780, TC-700P,TC-700

LCBN57



Highlights

- » Designed for EX-protection products (intrinsically safe);
- » Tough leather ensures you remarkable wearability;
- » Elastic clip (not rotatable);
- » 100% cotton wards off static interference.

Specifications

- Material: cowhide
- Size: 143.0*69.0*50.0 (mm)
- Weight: about 171.0g
- Operating Temperature: -40~55° C

Applicable Radio

TC-700ExPlus

► PU Case

PU case is economical and has an attractive appearance.

PCN003



Highlights

- » Soft texture and compact body;
- » Elastic clip (not rotatable);

Specifications

- Material: PU (polyurethane)
- Size: 101.0*58.0*28.0 (mm)
- Weight: 28.4g
- Operating Temperature: -25~55° C

Applicable Radio

TC-320

► **Nylon Case**

Benefiting from the use of high-strength nylon, this kind of case can deliver exceptional performance in water resistance, wearability and affordability.

NCN001



Highlights

- » Half-open design for easy installation;
- » Back-lock belt loop for easy use;
- » The standard nylon strap gives you more flexibility in how it is worn.

Specifications

- Material: nylon
- Size: 120.0*60.0*38.0 (mm)
- Weight: 87.2g
- Operating Temperature: -25~55° C

Applicable Radio

TC-500, TC-600, TC-610, TC-620, TC-610P, TC2110, TC-2108, TC-518, TC-446S, TC-508, POWER446 and TC-446

NCN011



Highlights

- » Half-open design for easy installation;
- » Back-lock belt loop for easy use;
- » The standard nylon strap gives you more flexibility in how it is worn.

Specifications

- Material: nylon
- Size: 132.0*63.0*45.0 (mm)
- Weight: 104.2g
- Operating Temperature: -25~55° C

Applicable Radio

PD60X, PD50X, PD66X,PD68X,PD56X,PD41X,PD40X X1e, X1p and Z1p

► **Others**

Waterproof Bag LCYY02



Highlights

- » 2-layer frosted PVC for comfortable texture;
- » The interlined sponge provides extra protection for the terminal;
- » Simple operation with high reliability;
- » Applicable to use on rainy days or in damp locations, but not submersible;
- » The standard nylon strap gives you more flexibility in how it is worn.

Specifications

- Material: PVC (with interlined sponge)
- Size: 435.0*110.0*214.0 (mm)
- Weight: 41.6g
- Operating Temperature: 0~50° C

Applicable Radio

All except for TC-310, TC-320, PD35X, PD36X, PD37X

Nylon Chest Pack LCBN13



Highlights

- » Adjustable strap for enhanced comfort;
- » Designed for users (such as a policeman) who need to carry around the radio and other tools

Specifications

- Material: nylon (1680D)
- Size: 223.0*184.0 (mm)
- Weight: 277.8g
- Operating Temperature: -25~55° C

Applicable Radio

All except for TC-310, TC-320, PD35X, PD36X, PD37X

Covert shoulder harness NCN009



Highlights

- » With elastic reinforced material for enhanced comfort;
- » Covert designed for users (such as police) who need to carry about the radio concealed.
- » A earphone could be worn behind the cloth for covert operations;
- » Makes the earphone easy to operate and the material is washable;

Specifications

- Material: Lycra elastic fabric
- Size: 570.0*470.0 (mm)
- Colour: White
- Operating Temperature: -25~50° C

Applicable Radio

X1e, X1P, X1p(UL913), Z1p

Covert Vest NCN009-C



Highlights

- » With elastic reinforced material for enhanced comfort;
- » Covert designed for users (such as police) who need to carry about the radio concealed;
- » An earphone could be worn behind the cloth for covert operations;
- » Makes the earphone easy to operate and the material is washable;

Specifications

- Material: Lycra elastic fabric
- Colour: White
- Operating Temperature: -25~50° C

Applicable Radio

X1e, X1P, X1p(UL913), Z1p

Carrying Case with Clip PCN005



Highlights

- » Covert designed for users (such as police) who need to carry about the radio.
- » Makes the earphone easy to operate and to achieve complete hands-free operation;
- » Convenient in carrying the radio;

Specifications

- Material: PC plastic
- Size: 104*65*41 (mm)
- Weight: 40g
- Operating Temperature: -25~50° C

Applicable Radio

X1e, X1P, X1p(UL913), Z1p

Nylon Backpack (for portable repeater) (black) NCN010



Highlights

- » Suitable to carry, move around with and operate the repeater;
- » Make Repeater easy to operate and convenient to carry;

Specifications

- Material: Nylon
- Size: 52*31 (mm)
- Weight: 1.5Kg
- Operating Temperature: -25~50° C

Applicable Radio

RD96X

Note: Other accessories that can be used with this bag (Battery , Installation kit , Antenna , Microphone etc) are sold separately

Nylon Backpack (for Mobile Radio) (black) NCN012



Highlights

- » Suitable to carry, move around with and operate the repeater;
- » Slim and Portable;

Specifications

- Material: Nylon
- Size: 52*31 (mm)
- Weight: 1.5Kg
- Operating Temperature: -25~50° C

Applicable Radio

MD65X MD78X

Note: Other accessories that can be used with this bag (Battery , Installation kit , Antenna , Microphone etc) are sold separately

1.4.2 Belt Clip

BC09

Product Model

A plastic belt clip with a spring and metal bracket. This can be attached to the battery easily via the slot on the back.of the radio.

Applicable Radio

TC-268S, TC-368S, TC-265, TC-365, TC-270, TC-700, TC-780M, TC-780, TC-700P, TC-700 ExPlus, TC3000, TC3600.

BC08/BC22

Product Model

A plastic belt clip with a spring and metal bracket. This can be secured to the radio via screws.

Applicable Radio

BC08: TC-700, TC-700P, PT580H
TC-780, TC780M, PD40X,
PD41X, PD50X, PD56X,PD60X
BC22:PD66X, PD68X

BC19

Product Model

A plastic belt clip with a spring and metal bracket. This can be secured to the radio via screws.

Applicable Radio

PD70X ,PD78X, PT580H, PD71X Ex, PD79X Ex
PT580H, TC-780, TC-780M and TC-880GM
PD70X(UL913), PD78X(UL913)

BC20

Product Model

A plastic belt clip that makes carrying the radio comfortable and secure

Applicable Radio

PD35X



BC21

Product Model

A plastic belt clip that makes carrying the radio comfortable and secure.

Applicable Radio

PD36X



BC12

Product Model

A plastic belt clip with a spring and metal bracket. This can be secured to the radio via screws.

Applicable Radio

TC-610, TC-620, TC-610P, TC-518, TC-446S, TC-580, TC-508, POWER446, TC-510, TC-600, TC-500



BC10

Product Model

A plastic belt clip with a spring and metal bracket. This can be attached to the battery easily via the slot on the back of the radio.

Applicable Radio

TC-500, TC2110 and TC2108



BC16

Product Model

A plastic belt clip with a spring and metal bracket. This can be secured to the radio via screws.

Applicable Radio

TC-310 and TC-320



BC17

Product Model

A plastic belt clip with a spring and metal bracket. This can be secured to the radio via screws.

Applicable Radio

PT580



BC11

Product Model

A plastic belt clip with a spring and metal bracket. This can be attached to the battery easily via the slot on the back of the radio.

Applicable Radio

TC-600 and TC1600



BC23

Product Model

A plastic belt clip that makes carrying the radio comfortable and secure.

Applicable Radio

PD37X



BC24/BC26

Product Model

A plastic swivel belt clip that makes carrying the radio comfortable and secure

Applicable Radio

PD60X(BC24), PD66X/PD68X(BC26)

1.4.3 Strap



R001

Product Model

Nylon neck strap

Applicable Radio

PD35X, PD36X, TC1688,PD37X
TC-310,TC-320, TC-365, TC-368S



R003

Product Model

Nylon neck strap

Applicable Radio

X1e ,X1P, PD50X, PD56X, PD60X,
PD66X, PD68X, PD40X, PD41X,
Z1P, TC-600, TC-610, TC-620,
TC-610P, TC1600, TC-518, TC-580,
TC-446S, TC-508, POWER446



R005

Product Model

Nylon hand strap

Applicable Radio

TC-268S, TC-368S, TC-265, TC-365,
TC-500, TC-446



R004

Product Model

Leather hand strap

Applicable Radio

PD70X , PD78X , PD71X Ex, PD79X Ex,
PD75X, PD700 Ex, PD780 Ex, PT580,
PT580H, TC-700, TC-780M,
TC-700ExPlus, TC3000, TC3600,
TC-780, TC-700P, TC-880GM

1.4.4 Car Kit

Portable radio fixed kit on the car that makes user hands free, meanwhile the car kit can enhance the coverage of portable radio by RF adapter.



interface including power supply,
microphone, mobile antenna
and GPS antenna



Standard version car kit
CK02/CK03

Highlights

- » Fix the portable radio into a car work as a function limited mobile radio;
- » Can Access to external speaker, directional microphone and remote push-to-talk accessories;
- » Extended radio and GPS coverage through an external antenna;
- » Be Compatible with thin and thick battery and with key loded design;
- » Easy fix in the CAR through a mounting bracket on the cradle allows user to set the unit in a position for easy convenient access.

Specifications

- Size: 193.4*78.4*67.6(mm)(CK02/CK02-S)
188.9*78.4*67.6(mm)(CK03/CK03-S)
- Weight: 317g
- Operating Temperature: -20~60°C(discharger)/0~45°C(charger)
- Input voltage:12-24V DC
- Antenna interface:BNC(RF)/SMA(GPS)
- Length of power supply cable: 3m



CK02

► Car kit accessories

Car kit package includes mounting bracket, power cable, RF adapter, meanwhile there are specialized palm microphone and dest speaker for car kit.



RF adapter POA68



Desk speaker SM09S1



Palm microphone SM16A3

Applicable Radio

Product Model	Car kit accessory	Applicable Radios
CK02	Remote Speaker Microphone SM18A3	PT580H
CK02-S	Remote Microphone without speaker SM16A3	
CK02-E	Desk speaker SM09S1	
CK03	Remote Speaker Microphone SM18A4	PD70X, PD78X
CK03-S	Remote Microphone without speaker SM16A3	
CK03-E	Desk speaker SM09S1	

1.5 Programming Cable

You can use a programming cable to write or read data into or from radios. One end of the cable connects with a radio and the other connects with a computer. All configurations are done via the CPS (customer programming software). There are two ports available: USB and COM.

Product Overview

With a built-in PL2303 USB chip, the cable supports “plug and play” capability and can work in Win98/ME/2000/XP/Vista/Win7. Note that PL2303 driver is required before initial use.

Product Model	Applicable Radios
PC25	TC3000, TC3600, TC-780M, TC-780, TC-610P, TC-700P and TC-880GM
PC26	TC-500, TC-518, TC-600, TC-580, TC-446S, TC2110, TC2108, TC1600, TC-700, TC-610, TC-620 and TC-700 Ex Plus
PC27	TC-268S, TC-368S, TC-265, TC-365, TC-270
PC30	TC-320 , TC-310 and GM800
PC36	PT580 and PT580H
PC69	PD35X, PD36X and PD37X
PC45	X1e, X1P, X1p(UL913), PD60X, PD66X, and PD68X
PC63	PD50X and PD56X
PC76	PD40X and PD41X



Programming Cable
(USB port) PC36



Programming Cable
(USB port) PC38



Programming Cable
(COM port)

Product Overview

The cable supports "plug and play" capability.

Applicable Radio

PD70X , PD78X,
PD70X(UL913), PD78X(UL913),
PD71X Ex, PD79X Ex

Product Overview

The cable supports RS232 communication protocol and features high reliability.

Product Model	Applicable Radios
PC18	TC3000, TC3600, TC-780M, TC-780, TC-610P, TC-700P and TC-880GM
PC19	TC-500, TC-518, TC-600, TC-580, TC-446S, TC2110, TC2108, TC1600, TC-700, TC-610, TC-620, TC-700Ex Plus
PC23	TC-268S, TC-368S, TC-265, TC-365, TC-270

► Others



Serial device server PC71

Product Overview

PC71 serial device server is an RS232 to TCP/IP converter for use with MD65X/MD78X digital mobile radio to realize remote monitoring.

Applicable Radio

MD65X and MD78X

Specifications

- Ethernet: 10M/100M, 2 KV surge protection
- RS232 Connector: RXD, TXD, GND, CTS, RTS
- Power Supply: 9 V to 24 V DC, 400 mW to 600 mW
- Size: 94 * 65 * 25 (mm)
- Operating temperature: -30 °C to 60 °C



Repeater and Mobile Radio Accessories

To optimize the performance of repeater and mobile radio, we develop a package of helpful accessories, including microphone, speaker, power supply, power cord, installation kit, data cable, antenna and etc.

2.1 Audio Devices

The accessories available for mobile radio include palm microphone, desktop microphone and external speaker, meeting your specific requirements in different conditions.

► Palm Microphone

Palm Microphone SM16A1/SM16A2

Highlights

- » Rugged quality ensures superb performance even in tough environments;
- » Electret design delivers crisp and clear voice;
- » 10Pin aviation interface for secure connection;
- » IP54 compliance for SM16A1 and IP67 compliance for SM16A2.

Specifications

Sensitivity: -21±3dB @1KHz (0dB = 1v/Pa);
Output impedance: ≤2.2kΩ;
Directionality: omni-directional
Size: 82.0*56.0*32.2 (mm)
Weight: about 120.0g
Operating Temperature: -30~65° C
PTT cycles≥100000

Applicable Radio

MT680, MD78X, MD78X duplex mobile radio, RD98X and RD98XS



Palm Microphone with keypad

Highlights

- » Large-sized and ergonomical keys;
- » Multiple keys available for programming based on your preferences;
- » Emergency alarm capability at one-button operation;
- » Electret design delivers crisp and clear voice;
- » 10Pin aviation interface for secure connection;
- » IP54 compliance.

Specifications

Sensitivity: -21±3dB @1KHz (0dB = 1v/Pa);
Output impedance: ≤2.2kΩ;
Directionality: omni-directional
Size: 97.0*64.0*39.4 (mm)
Weight: about 170.0g
Operating Temperature: -30~65° C
PTT cycles≥100000

Applicable Radio

Audio Accessory Jack	Product Model	Applicable Radios	Remarks
	SM19A1	MD78X, MD78X duplex mobile radio	
	SM19A2	MT680	Up,down,left,right key



Remote Speaker Microphone With Display SM25A1/SM25A2

Highlights

- » Electret design delivers crisp and clear voice;
- » Multiple keys available for programming based on your preferences;
- » Emergency alarm capability at one-button operation;
- » Power on/off key to control mobile radio;
- » 10Pin aviation interface for secure connection;
- » LCD display for you better to find the radio information;
- » IP54 compliance.

Specifications

- Speaker specification
Sensitivity: 97±3dB (1w/30cm)@ 300Hz-3KHz AVE;
Rated power: 2W Max. power: 3W
Rated impedance: 20Ω±15% @1.5kHz 1V (variable with frequency)
- Microphone specifications
Sensitivity: -21±3dB @1KHz (0dB = 1v/Pa)
Output impedance: ≤2.2kΩ
Directionality: omni-directional
- Size: 97.0*64.0*39.4 (mm)
- Weight: about 170.0g
- Operating Temperature: -30~65° C
- PTT cycles≥100000

Applicable Radio

MD65X

Remarks: You can choose SM25A2 for about 6m wire.



Telephone Style Handset SM20A1

Highlights

- » Electret design delivers crisp and clear voice;
- » Adjust volumn by +/- button;
- » Convenient private conversation;
- » 10Pin aviation interface for secure connection

Specifications

- Speaker specification
Sensitivity: 125±4dB (IEC 318)@ 1KHz(Finish product, max volume)
Rated power: 30mW Max. power: 50mW;
Rated impedance: 150Ω±15% @1.5kHz 1V
- Microphone specifications
Sensitivity: -21±3dB @1KHz (0dB = 1v/Pa)
Output impedance: ≤2.2kΩ
Directionality: omni-directional
- Operating Temperature: -30~65° C
- PTT cycles≥100000

Applicable Radio

MD78X, MT680(G1.5 or above)



Telephone Style Handset With Keypad SM20A2

Highlights

- » Electret design delivers crisp and clear voice;
- » Multiple keys available for programming based on your preferences;
- » Adjust volumn by +/- button;
- » Convenient private conversation;
- » 10Pin aviation interface for secure connection;

Specifications

- Speaker specification
Sensitivity: 125±4dB (IEC 318)@ 1KHz(Finish product, max volume)
Rated power: 30mW Max. power: 50mW;
Rated impedance: 150Ω±15% @1.5kHz 1V
- Microphone specifications
Sensitivity: -21±3dB @1KHz (0dB = 1v/Pa)
Output impedance: ≤2.2kΩ
Directionality: omni-directional
- Operating Temperature: -30~65° C
- PTT cycles≥100000

Applicable Radio

MD78X duplex mobile radio



Waterproof Remote Speaker Microphone SM18A1

Highlights

- » Rugged and durable ;
- » Compliant with IP67 requirements;
- » Adjust volumn by +/- button;
- » 360 degrees swivel metal clip.

Applications

For situations in which portable repeater need to receive calls

Specifications

- Speaker specification
Sensitivity: 93±3dB (1w/30cm)@ 300Hz-3KHz AVE;
Rated power: 1W Max. power: 1.5W;
Rated impedance: 8Ω±15% @1.5kHz 1V
(variable with frequency)
- Microphone specifications
Sensitivity: -42±2dB @1KHz (0dB = 1v/Pa)
Directionality: omni-directional
- Operating Temperature: -30~65° C

Applicable Radio

RD96X



Wireless Audio Adapter ADA-01

Highlights

- » Can adapt with some car bluetooth sound system(release soon);
- » Can adapt with wireless PTT;

Applications

Mobile dispatching, police dispatching fields.

Specifications

- Communication range: 10-30m
- PTT cycles≥100000
- Operating Temperature: -20~60° C

Applicable Radio

MD78X, MD65X



Wireless Remote Speaker Microphone SM27W1

Highlights

- » Support USB charger
- » Solve the restriction of cable
- » Better penetrability
- » Volume and Channel adjust
- » Convenient to operate

Applications

Mobile dispatching, police dispatching fields.

Specifications

- Speaker specification
Sensitivity: 97±3dB (1w/30cm)@ 300Hz-3KHz AVE;
Rated power: 2W Max. power: 3W;
Rated impedance: 4Ω±15% @1.5kHz 1V (variable with frequency)
- Microphone specifications
Sensitivity: -42±2dB @1KHz (0dB = 1v/Pa)
Directionality: omni-directional
- PTT cycles≥100000
- Communication range:10-30m
- PTT cycle≥100000
- Operation temperature:-20~60° C;
- Charge time≤3h
- IP class:IP54

Applicable Radio

MD78X*, MD65X*

Note:* SM27W1 should adapt to ADA-01.



Wireless Remote Speaker Microphone
SM27W1



Mount Charger

Palm Microphone SM07R2

Highlights

- » Electret design delivers crisp and clear voice;
- » Standard RJ45 interface;
- » Metal buckle and fixing base included in the kit;
- » IP54 compliance and ruggedness for superb performance even in tough environments.

Specifications

- Sensitivity: $-46\pm 3\text{dB}$ @1KHz (0dB = 1v/Pa)
- Output impedance: $\leq 2.2\text{k}\Omega$
- Directionality: omni-directional
- Size: 94.8*70.4*41.7 (mm)
- Weight: about 238.0g
- Operating Temperature: $-30\sim 65^{\circ}\text{C}$

Applicable Radio

TM-800M, TM-800, TR-800, TM-600, TM-610 and TM-628H



Palm Microphone (with keypad) SM07R1

Highlights

- » Backlight and metal case enhances your experience;
- » Electret design delivers crisp and clear voice;
- » Standard RJ45 interface;
- » Metal buckle and fixing base included in the kit;
- » IP54 compliance and ruggedness for superb performance even in tough environments

Applications

For situations in which portable repeater need to receive calls

Specifications

- Sensitivity: $-45\pm 3\text{dB}$ @1KHz (0dB = 1v/Pa)
- Output impedance: $\leq 2.2\text{k}\Omega$
- Directionality: omni-directional
- Size: 103.0*72.0*48.0 (mm)
- Weight: about 310.0g
- Operating Temperature: $-30\sim 60^{\circ}\text{C}$

Applicable Radio

TM-800M, TM-800, TM-600, TM-610 and TM-628H



Palm Microphone SM11R1

Highlights

- » Compact body and decent appearance;
- » Fashionable metal front case;
- » Electret design delivers crisp and clear voice;
- » Standard RJ45 interface;
- » Metal buckle and fixing base included in the kit;
- » IP54 compliance and ruggedness for superb performance even in tough environments.

Specifications

- Sensitivity: $-45\pm3\text{dB}$ @1KHz (0dB = 1v/Pa)
- Output impedance: $\leq 2.2\text{k}\Omega$
- Directionality: omni-directional
- Size: 80.0*60.0*40.0(mm)
- Weight: about 225.0g
- Operating Temperature: $-30\sim 65^{\circ}\text{C}$

Applicable Radio

TM-600, TM-610, TM-628H, TM-800 and TM-800M



Palm Microphone SM08R1

Highlights

- » Electret design delivers crisp and clear voice;
- » 360 degrees swivel metal clip;
- » Standard RJ45 interface.

Specifications

- Sensitivity: $-45\pm3\text{dB}$ @1KHz (0dB = 1v/Pa)
- Output impedance: $\leq 2.2\text{k}\Omega$
- Directionality: omni-directional
- Size: 74.0*58.0*30.0 (mm)
- Weight: about 60g
- Operating Temperature: $-30\sim 65^{\circ}\text{C}$

Applicable Radio

TR-50



► Desktop Microphone

Designed for repeater and base radio, our desktop microphone features high sensitivity and sonorous voice.

Desktop Microphone

Highlights

- » Electret design delivers crisp and clear voice;
- » Built-in amplifier circuit provides audio with high gain over a wide frequency range;
- » Large PTT key and MONITOR key with lock capability.

Specifications

- Sensitivity: -32±5dB @1KHz (0dB = 1v/Pa)
- Output impedance: ≤2.2kΩ
- Directionality: omni-directional
- Size: 107.0*65.0*148.6 (mm)
- Weight: about 164.0g
- Operating Temperature: -30~70° C

Applicable Radios List

Product Model	Jack Picture		Applicable Radios
SM10R2	RJ45		TM-800, TM-800M, TM-600, TM-610, TM-628H and TR-800
SM10A1	10-pin aviation interface		MT680, MD78X , RD98X



► External Speaker

This large speaker works with high power, enabling it to deliver clear and sonorous voice.

External Speaker

Highlights

- » Flexible and easy to install;
- » Adjustable bracket for your actual requirements;
- » Clear and sonorous voice output.

Specifications

- Sensitivity: 88±2dB (1w/1m)@ 600,700,800,900Hz AVE
- Rated Power: 15W Max. Power: 20W
- Rated Impedance: 8Ω±15% @500Hz
- Size: 155.6*92.5*140.2 (mm)
- Weight: about 774.0g
- Operating Temperature: -30~70° C

Applicable Radios List

Product Model	Jack Picture		Applicable Radios
SM09S2	Φ 3.5mm single pin		TM-800, TM-800M, TM-600, TM-610 and TM-628H
SM09D1	Db26 contact pin		MT680 , MD78X, MD65X
SM09S1	10-pin aviation interface		CK02, CK02-S, CK02-E, CK03, CK03-S, CK03-E



2.2 Power Devices

A good power supply must be safe and vibrant. That is what you can get from our power solution.

External Power Supply (220W) PS22002

Highlights

- » Rated power up to 220W and utility power or battery available;
- » A wide range of voltage input (100~240VAC) supported;
- » AC power cord (1.8m) included in the kit;
- » External lead-acid battery (12V/20AH) supported and auto switch to battery in case of AC power cutoff;
- » Float charge capability helps maintain sufficient charge;
- » Protection against polarity reverse and overdischarge;
- » Integration with mobile radio minimizes the space requirements;
- » Rack power supply available with the optional installation kit.

Applications

To power the high-power communication devices (such as repeater) that work indoors.

Specifications

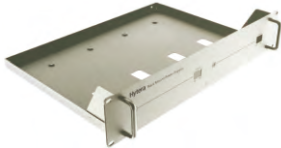
- Input voltage: 100~240VAC
- Output voltage: DC 13.8V±1.0 %
- Output current::0~16A
- Float charge current: 1000mA
- Operating Temperature: -20~65℃
- Size: 296.0*176.0*87.5(mm)

Applicable Radio

MD78X(G), MD78X(G) full dulpex mobile radio, MT680, RD65X, RD98X, RD98XS, TM-628H, TM-800 and TM-800M



PS22002



Installation Kit for PS22002(Gray)
BRK14



Installation Kit for PS22002(Black)
BRK12

150W External Power Supply PS15001

Highlights

- » Rated power up to 150W and utility power available only;
- » Applicable to base radio with TX power less than 25W;
- » Secure installation with the supplied bracket;
- » AC power cord (1.8m) included in the kit;
- » Capable of overload and overvoltage protection.

Applications

For lower-power base radios working indoors.

Specifications

- Input voltage: 100~120VAC/220~240VAC
- Output voltage: DC 13.5V±2% (standby); DC 13.5V±5% (with load)
- Output current: 0~11.2A
- Size: 285.0*160.0*58.8 (mm)
- Operating Temperature: -10~60° C

Applicable Radio

TM-800, TM-800M, TM-600, TM-610 and TM-628H



Cabinet Power Supply PS16001

Highlights

- » Output power up to 220W with two power supply modes-AC and standby battery;
- » Standard 1.8m AC power line;
- » External lead-acid battery (12V/20Ah),rang fom 11 to 15 V) auto switched to in case of the AC power cut off;
- » Integrated installation of the power supply and mobile terminal to save space effectively;
- » Dual protection scheme to prevent battery reverse and battery over-discharge;
- » Input voltage range (100~240VAC) to meet requirements of different AC voltages;
- » Functional interfaces such as antenna interface GPS antenna interface, Db26pin interface and grounding stud to facilitate external use and secondary development;



Specifications

- Input voltage: 100~240V AC
- Output voltage: 13.6V±1.0% DC
- Output current: 0~16A
- Operating Temperature: -20~65° C
- Size: 271.2*220.0*150.0(mm)
- Weight: 4.55kg

Applicable Radio

MD78X , MD78X full dulpex mobile radio

Cabinet Power Supply PS16002

Highlights

- » Output power up to 220W with two power supply modes-AC and standby battery;
- » Standard 1.8m AC power line;
- » External lead-acid battery (12V/20Ah,rang from 11 to 15 V) auto switched to in case of the AC power cut off;
- » Integrated installation of the power supply and mobile terminal to save space effectively;
- » Dual protection scheme to prevent battery reverse and battery over-discharge;
- » Input voltage range (100~240VAC) to meet requirements of different AC voltages;
- » Functional interfaces such as antenna interface GPS antenna interface, DB26pin interface and grounding stud to facilitate external use and secondary development;



Specifications

- Input voltage: 100~240V AC
- Output voltage: 13.6V±1.0% DC
- Output current: 0~16A
- Operating Temperature: -20~65° C
- Size: 271.2*220.0*150.0(mm)
- Weight: 4.55kg

Applicable Radio

MT680

2.3 Power Cord

► DC power cord



DC Power Cord PWC06



DC Fuse POA15

Product Overview

- » 14 # DC power cord PWC06: 3m, 10A and work with 10A DC fuse POA15;
- » 12 # DC power cord PWC05: 3m, 15A and work with 15A DC fuse POA08.

Applicable Radio

PWC06: RD62X, TM-800, TM-800M, TM-600 and TM-610 (TX power < 25W)
PCW05: TM-800, TM-800M and TM-628H (TX power > 25W)



DC Power Cord PWC10



15A DC Fuse POA33

Product Overview

- » 12 # DC power cord PWC10: 3m, 15A and work with 15A DC fuse PO
- 12 # DC power cord PWC12: 5m, 15A and work with 15A DC fuse PO

Applicable Radio

MD78X(G), MT680,MD65X and DT600



DC Power Cord PWC04

Product Overview

DC power cord, 3m

Applicable Radio

TR-800



DC Power Cord PWC07

Product Overview

DC power cord, 2m

Applicable Radio

TR-50



DC Power Cord PWC11



15A DC Fuse POA33

Product Overview

- » DC power cord: 3m, 10A and work with 15A DC fuse PO

Applicable Radio

RD98X

► DC power cord



Power Cord PWC03

Product Overview

- » 3-core AC power cord: 1.8m, compliance with applicable standards in China, Europe Union, Britain, United States, Australia and Swiss.

Applicable Radios

TR-800, TR-50, RD62X



AC fuse POA11

Product Overview

- » POA11 AC fuse (tube): 3.15A, applicable to AC 200~240V;
- » POA12 AC fuse (tube): 6.3A, applicable to AC 100~120V.

Applicable Radio

TR-800

2.4 Installation Accessories

► For Radios

To secure the installation of mobile radios and related devices, we developed a number of installation kits including brackets, pads, knobs, screws and etc.



Installation Kit BRK03

Applicable Radio

TM-800 TM-800M



Installation Kit BRK04

Applicable Radio

TM-600 TM-610



Installation Kit BRK08

Applicable Radio

MD65X, MD78X(G)
and MD78X(G) full duplex mobile radio



Installation Kit BRK11

Applicable Radio

MT68X



Installation Kit BRK10

Applicable Radio

DT600

► **For Duplexer**

Designed for the duplexer, an installation kit may consist of brackets, pads, knobs, screws etc.



Installation Kit BRK06

Applicable Radio

TR-50



Installation Kit BRK09

Applicable Radio

RD98X and RD98XS

► **For Power Supply**

This kit enables you to install two 300W power supplies into a 2U power supply rack. The kit comes in two colours black or grey.



**Installation Kit (Black)
BRK12**



**Installation Kit (Gray)
BRK14**



**Wall-mount Installation Kit
BRK18**

Product Overview

- » BRK12 Installation Kit for Rack-mounted Power Supply (2U) (Black)
- » BRK14 Installation Kit for Rack-mounted Power Supply (2U) (Gray)
- » BRK18 Installation Kit for Wall-mounted Power Supply

Applicable Radio

RD98X and RD98XS



2U Rack Power Supply

► **For Repeater**

To secure the installation of repeater and related devices, we developed a number of installation kits including brackets, pads, knobs, screws and etc.



**Installation Kit
BRK17**

Applicable Radio

RD96X



**Wall-mount Installation Kit
BRK19**

Applicable Radio

RD98X and RD98XS

► **For Six-unit Charger**

This kit enables you to install the Multi-charger to the Wall location for easy accessibility.



**Wall-mount Installation Kit
BRK20**

Applicable Radio

MCA08, MCA10

► **Mobile Radio Remote Mount Kit**

This kit enables you to install the control panel to a location for easy accessibility. Based on the cable length, it falls into three types: 3m, 6m and 15m.



Mobile Radio Remote Mount Kit

Product Overview

- » RCC01 Mobile Radio Remote Mount Kit (3m)
- » RCC02 Mobile Radio Remote Mount Kit (6m)
- » RCC03 Mobile Radio Remote Mount Kit (15m)

Applicable Radio

TM-800 and TM-800M

DMR Mobile Radio Remote Mount Kit

Product Overview

- » RCC04 Mobile Radio Remote Mount kit, have control head, IP67; (3m);
- » RCC05 Mobile Radio Remote Mount kit , have control head, IP67; (6m);
- » RCC06 Mobile Radio Remote Mount kit , have no control head, IP54; (3m);
- » RCC07 Mobile Radio Remote Mount kit , have no control head, IP54; (6m);

Applicable Radio

MD78X(G) and MD78X(G) full duplex mobile radio



TETRA Mobile Radio Remote Mount Kit

Product Overview

- » RCC08 Mobile Radio Remote Mount kit, have no control head, IP54; (3m);
- » RCC09 Mobile Radio Remote Mount kit , have no control head, IP54; (6m);
- » RCC10 Mobile Radio Remote Mount kit , have no control head, IP54; (15m);
- » RCC11 Mobile Radio Remote Mount kit , have control head, IP67; (3m);
- » RCC12 Mobile Radio Remote Mount kit , have control head, IP67; (6m);
- » RCC13 Mobile Radio Remote Mount kit , have control head, IP67; (15m);

Applicable Radio

MT680

2.5 Duplexer



Duplexer

- » DT01 Duplexer (Frequency: 137-172MHz) (Frequency spacing: 5~13MHz)
- » DT06 Duplexer (Frequency: 130-176MHz) (Frequency spacing: 5~13MHz)
- » DT06 Duplexer (Frequency: 336-370MHz) (Frequency spacing: 10MHz)
- » DT03 Duplexer (Frequency: 380-470MHz) (Frequency spacing: 5~15MHz)
- » DT07 Duplexer (Frequency: 400-480MHz) (Frequency spacing: 5.5~10MHz)
- » DT10 Duplexer (Frequency: 350-390MHz) (Frequency spacing: 10MHz)

Applicable Radio

TR-800



- » DT11 Duplexer (Freq.Range: 380-470MHz) (Tx/Rx spacing: 10MHz)
- » DT14 Duplexer (Freq.Range: 330-400MHz) (Tx/Rx spacing: 10MHz)
- » DT12 Duplexer (Freq.Range:160-174MHz) (Tx/Rx spacing: 5MHz)
- » DT13 Duplexer (Freq.Range:148-160MHz) (Tx/Rx spacing: 5MHz)
- » DT15 Duplexer (Freq.Range:136-148MHz) (Tx/Rx spacing: 5MHz)
- » DT16 Duplexer (Freq.Range:440-480MHz) (Tx/Rx Spacing:5MHz) (RoHS)
- » DT17 Duplexer (Freq.Range:480-512MHz) (Tx/Rx Spacing:5MHz) (RoHS)
- » DT23 Duplexer (Freq.Range:136-174MHz) (Tx/Rx Spacing:4MHz)

Applicable Radio

RD98X

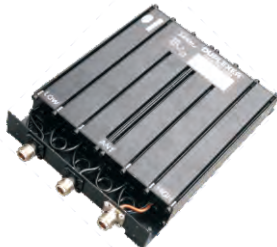


Duplexer Kit

- » DK01 Duplexer kit (137-172MHz and work with an external board)
- » DK02 Duplexer kit (336-370MHz and work with an external board)
- » DK03 Duplexer kit (380-470MHz and work with an external board)

Applicable Radio

TR-50



Duplexer

- » DT20 Built-in Mini Duplex (Frequency Range:400~470MHz) (Frequency Spacing:5.5~10MHz) (Non-RoHS compliant)
- » DT18 Built-in Mini Duplex (Frequency Range:136~174MHz) (Frequency Spacing:4.6~6MHz) (Non-RoHS compliant)
- » DT21 (PROCOM) Built-in Mini Duplex (Frequency Range:136~174MHz) (Frequency Spacing:4.6~6MHz) (RoHS)
- » DT22 (PROCOM) Built-in Mini Duplex (Frequency Range:350~470MHz) (Frequency Spacing:5.5~10MHz) (Non-RoHS compliant)

Applicable Radio

RD96X



Duplexer Kit

- » DT01 Duplex (Frequency Range:137~172MHz) (Frequency Spacing:4.5~13MHz) (Non-RoHS compliant)
- » DT03 Duplex (Frequency Range:380~470MHz) (Frequency Spacing:5~20MHz) (Non-RoHS compliant)
- » DK08 U1 25W Duplexer Kit (include DT03 duplex, mounting bracket, RF cable)
- » DK09 VHF Duplexer Kit (include DT01 duplex, mounting bracket, RF cable)

Applicable Radio

RD62X

2.6 Data Cable

► Programming Cable

One end of the cable connects with a radio and the other connects with a computer. All configurations are done via the CPS (customer programming software). There are two ports available: USB and COM.



Programming Cable PC21(COM port)

Product Overview

- » The cable supports RS232 communication protocol and features high reliability.

Applicable Radio

Product Model	Applicable Radios
PC21	TM-800, TM-800M, TM-600, TM-610 and TR-800 TM-628H
PC14	TR-50 transmitter
PC15	TR-50 receiver



10pin Programming Cable PC37(USB)

Product Overview

- » USB capability, plug and play;
10-pin aviation connector ensures secure connection with repeater or mobile radio.

Applicable Radios

MD78X(G) ,MD78X(G) full duplex mobile radio, MD65X, RD98X, RD98XS, and RD96X



10 pin programming cable PC47 (Download and CPS)

Product Overview

- » USB capability, plug and play; 10pin aviation interface ensures secure connection with repeater or mobile radio.

Applicable Radio

MD78X(G), MD78X(G) full duplex mobile radio, MD65X, RD98X, RD98XS, and RD96X



10 pin programming cable PC35 (USB to serial port)

Product Overview

- » With a built-in PL2303 USB chip, the cable supports "plug and play" capability and can work in Win98/ME/2000/XP/Vista/Win7. 10-pin aviation connector ensures secure connection with repeater or mobile radio. Note that PL2303 driver is required before initial use.

Applicable Radio

MT680



**Programming cable PC75
CPS programming and firmware upgrading**

Product Overview

- » Designed for HDC control system, the cable is used for the transfer of data between computer and repeater or mobile radio.

Applicable Radio

RD62X

► Others



USB-COM Data Cable CP09

Product Overview

» Working with PC21, the data cable can achieve USB-RS232 conversion easily, facilitating your operation in case of no serial ports or insufficient serial ports.

Applicable Radio

TM-800, TM-800M,
TM-600, TM-610,
TM-628H



Back to back data cable PC49

Product Overview

» Used for repeater and mobile radio back-to-back function.

Applicable Radio

MD65X, MD78X, RD98X, RD98XS,
RD62X, RD96X



DB26 Data Cable PC40(USB)

Product Overview

» Designed for HDC control system, the cable is used for the transfer of data between computer and repeater or mobile radio.
PC39 DB26 programming cable (USB to serial port)
(Note that PL2303 driver is required before initial use.)

Applicable Radio

MT680

PC40 DB26 programming cable (USB port)

Applicable Radio

MD78X(G) MD78X(G) full duplex mobile radio, MD65X, RD98X, RD98XS, and RD62X



Data Cable (USB to DB9 Female Connector) PC41

Product Overview

» Used for tuning or programming the modem.

Applicable Radio

DT600



Data Cable (USB to DB9 Male Connector) PC42

Product Overview

» Used for connecting modem with RTU device for data transfer.

Applicable Radio

DT600



Data Cable PC24

Product Overview

» Designed for HDC control center and patrol system, the cable is used for the transfer of data between computer and mobile radio.

Applicable Radio

TM-800



**Ignition Cable for
Mobile Radio PC60**

Product Overview

- » Plug and play, DB26 pin interface ensures secure connection with mobile radio.

Applicable Radio

MD78X, MD78X full duplex mobile radio, MD65X and MT680



**10pin Programming Cable PC79
(USB port) for
MD65X Microphone**

Product Overview

- » USB capability, Plug and play; 10pin aviation interface ensures secure connection with Microphone.

PC79 10pin programming cable (USB)

Applicable Radio

MD65X Microphone



**Mobile DB26 to DB9
data transmit cable PC70**

Product Overview

- » DB26 to DB9 data transmit cable for MD78X

Applicable Radio

MD78X

2.7 Mobile Antennas

► GPS RX Antenna



Mobile GPS RX Kit GPS03

Product Overview

- » GPS03 Mobile GPS RX Kit (including GPS antenna and option board)

Applicable Radio

TM-800 and TM-800M



Mobile GPS Antenna GPS04

Product Overview

- » GPS04 Mobile GPS antenna (SMA/1575MHz)

Applicable Radio

MD78X, MD78X full duplex mobile radio, MT680 and DT600

► Mobile Radio Antennas

Made of stainless steel, this antenna features good flexibility and age resistance. Its base comes with three types: Magnetic, Clip and Hole.



TQC-150AII

Product Overview

- » AN0139M01 VHF TQC-150AII 136-142MHz 2.15dBi BNC-M M110 Mounting Tray
- » AN0155M06 VHF TQC-150AII 152-158MHz 2.15dBi BNC-M M110 Mounting Tray
- » AN0165M04 VHF TQC-150AII 162-168MHz 2.15dBi BNC-M M110 Mounting Tray
- » AN0171M11 VHF TQC-150AII 168-174MHz 2.15dBi BNC-M M110 Mounting Tray

Applicable Radio

MD78X, MD78X full dulpex mobile radio

Specifications

Frequency Range (MHz)	134-173
Bandwidth (MHz)	10
Gain (dBi)	2.15
VSWR	≤ 1.5
Nominal Impedance (Ω)	50
Maximum Power (W)	100
Length (cm)	50 (subject to frequency)
Weight (g)	150 (subject to frequency)



TQC-150CII

Product Overview

- ①
 - » AN0139M02 VHF TQC-150CII 136-142MHz 3dBi BNC Interface M110 Mounting Tray
 - » AN0155M05 VHF TQC-150CII 152-158MHz 3dBi BNC Interface M110 Mounting Tray
 - » AN0165M03 VHF TQC-150CII 162-168MHz 3dBi BNC Interface M110 Mounting Tray
 - » AN0171M12 VHF TQC-150CII 168-174MHz 3dBi BNC Interface M110 Mounting Tray
- ②
 - » AN0138M05 VHF TQC-150CII 136-142MHz 3.5dBi UHF Interface M110 Mounting Tray
 - » AN0155M07 VHF TQC-150CII 152-158MHz 3.5dBi UHF Interface M110 Mounting Tray
 - » AN0165M05 VHF TQC-150CII 162-168MHz 3.5dBi UHF Interface M110 Mounting Tray
 - » AN0171M05 VHF TQC-150CII 168-174MHz 3.5dBi UHF Interface M110 Mounting Tray

Applicable Radio

- ① MD78X, MD78X full dulpex mobile radio
- ② TM-800, TM-800M, TM-600, TM-610

Specifications

Frequency Range (MHz)	134-173
Bandwidth (MHz)	6
Gain (dBi)	3/3.5
VSWR	≤ 1.5
Nominal Impedance (Ω)	50
Maximum Power (W)	100
Length (cm)	110 (subject to frequency)
Weight (g)	220 (subject to frequency)



TQC-350
FC/400FC/400FCS Series

Product Overview

- ① » AN0358M12 UHF TQC-350FC 351-366MHz 3.5dBi BNC Interface M110 Mounting Tray
 - » AN0380M03 UHF TQC-350FC 372-388MHz 3.5dBi BNC Interface M110 Mounting Tray
 - » AN0408M02 UHF TQC-400FC 400-416MHz 3.5dBi BNC Interface M110 Mounting Tray
 - » AN0438M03 UHF TQC-400FC 430-446MHz 3.5dBi BNC Interface M110 Mounting Tray
 - » AN0462M03 UHF TQC-400FC 454-470MHz 3.5dBi BNC Interface M110 Mounting Tray
- ② » AN0358M05 UHF TQC-350FC 351-366MHz 3.5dBi UHF Interface
 - » AN0380M01 UHF TQC-350FC 370-390MHz 3.5dBi UHF Interface M110 Mounting Tray
- ③ » AN0420M04 UHF TQC-400FCS 410-430MHz 3dBi BNC Interface M110 Mounting Tray
 - » AN0390M02 UHF TQC-400FCS 380-400MHz 3dBi BNC Interface M110 Mounting Tray

Applicable Radio

- ① MD78X, MD78X full dulpex mobile radio
- ② TM-800, TM-800M, TM-600, TM-610
- ③ DT600

Specifications

Frequency Range (MHz)	300-390/400-490
Bandwidth (MHz)	20
Gain (dBi)	3/3.5
VSWR	≤ 1.5
Nominal Impedance (Ω)	50
Maximum Power (W)	100
Length (cm)	39 (subject to frequency)
Weight (g)	85 (subject to frequency)



TQC-350CII/DIIS Series

Product Overview

- ① » AN0358M11 UHF TQC-350CII 351-366Mhz 5dBi BNC Interface M110 Mounting Tray
- ② » AN0380M02 UHF TQC-350CII 372-388MHz 5dBi BNC Interface M110 Mounting Tray
- ③ » AN0375M03 UHF TQC-350CII 370-380MHz 5dBi UHF Interface M110 Mounting Tray
- ④ » AN0385M04 UHF TQC-350DIIS 380-390MHz 5.5dBi BNC Interface M110 Mounting Tray
AN0395M06 UHF TQC-350DIIS 390-400MHz 5.5dBi BNC Interface M110 Mounting Tray

Applicable Radio

- ① MD78X, MD78X full dulpex mobile radio and MT680
- ② MD78X, MD78X full dulpex mobile radio,
- ③ TM-800, TM-800M, TM-600, TM-610
- ④ MT680

Specifications

Frequency Range (MHz)	300-390
Bandwidth (MHz)	10
Gain (dBi)	5/5.5
VSWR	≤ 1.5
Nominal Impedance (Ω)	50
Maximum Power (W)	100
Length (cm)	110 (subject to frequency)
Weight (g)	220



TQC-400DII/DIIS Series

Product Overview

- ①
 - » AN0405M01 UHF TQC-400DII 400-410MHz 5dBi UHF Interface M110 Mounting Tray
 - » AN0415M01 UHF TQC-400DII 410-420MHz 5dBi UHF Interface M110 Mounting Tray
 - » AN0425M01 UHF TQC-400DII 420-430MHz 5dBi UHF Interface M110 Mounting Tray
 - » AN0435M02 UHF TQC-400DII 430-440MHz 5dBi UHF Interface M110 Mounting Tray
 - » AN0445M02 UHF TQC-400DII 440-450MHz 5dBi UHF Interface M110 Mounting Tray
 - » AN0455M02 UHF TQC-400DII 450-460MHz 5dBi UHF Interface M110 Mounting Tray
 - » AN0462M20 UHF TQC-400DII 454-470MHz 5dBi UHF Interface M110 Mounting Tray
- ②
 - » AN0408M01 UHF TQC-400DII 400-416MHz 5dBi BNC Interface M110 Mounting Tray
 - » AN0438M02 UHF TQC-400DII 430-446MHz 5dBi BNC Interface M110 Mounting Tray
 - » AN0462M02 UHF TQC-400DII 454-470MHz 5dBi BNC Interface M110 Mounting Tray
- ③
 - » AN0415M04 UHF TQC-400DIIS 410-420MHz 5.5dBi BNC Interface M110 Mounting Tray
 - » AN0425M03 UHF TQC-400DIIS 420-430MHz 5.5dBi BNC Interface M110 Mounting Tray

Applicable Radio

- ① TM-800, TM-800M, TM-600, TM-610
- ② MD78X, MD78X full dulpex mobile radio,
- ③ MT680

Specifications

Frequency Range (MHz)	400-480
Bandwidth (MHz)	16
Gain (dBi)	5/5.5
VSWR	≤ 1.5
Nominal Impedance (Ω)	50
Maximum Power (W)	100
Length (cm)	110 (subject to frequency)
Weight (g)	220 (subject to frequency)



TQC-900BII Series

TQC-900BII Series whip antenna is dedicated to mobile communication and image transmission. Its base comes with Magnetic or Clip.

Product Overview

- » AN0838M03 UHF TQC-900BII 806-870MHz 7dBi BNC Interface M110 Mounting Tray

Applicable Radio

MT680

Specifications

Frequency Range (MHz)	806-960
Bandwidth (MHz)	70
Gain (dBi)	7
VSWR	≤ 1.5
Nominal Impedance (Ω)	50
Maximum Power (W)	100
Length (cm)	58 (subject to frequency)
Weight (g)	180 (subject to frequency)