



1. EU-TYPE EXAMINATION CERTIFICATE

2. Equipment or Protective systems intended for use in Potentially Explosive Atmospheres - Directive 2014/34/EU

3. EU-Type Examination Certificate No: FM23ATEX0033X

4. Equipment or protective system:
(Type Reference and Name) Models HP71XEx, HP79XEx and PT890Ex Series Handheld Radios with Accessories

5. Name of Applicant: Hytera Communications Co Ltd

6. Address of Applicant Hytera Tower,
Hi-Tech Industrial Park North,
9108# Beihuan Road,
Nanshan District, Shenzhen 518057, China

7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8. FM Approvals Europe Ltd, notified body number 2809 in accordance with Article 17 of Directive 2014/34/EU of 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number:

PR463463 dated 18 September 2023

9. Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN IEC 60079-0:2018, EN 60079-11:2012, EN 60529:1991+A1:2000+A2:2013

10. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

11. This EU-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

Certificate issued by: Martin Crowe

21 September 2023

Certification Manager, FM Approvals Europe Ltd.

Date

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12. The marking of the equipment or protective system shall include:



Epsilon X accompanied by additional marking defined in the Annex.

13. Description of Equipment or Protective System:

The Model HP79XEx, HP71XEx PT890Ex are a series of portable handheld radios. The HP79XEx, HP71XEx series radios have RF (Radio Frequency) bandwidths of 350MHz~400MHz, 400MHz~480MHz or 136MHz~174MHz. The PT890Ex series radios have RF bandwidths of 320MHz~380MHz, 380MHz~475MHz or 806MHz~870MHz.

The radios are powered by a lithium-ion battery pack. The battery pack is identified as Hytera Communications Co., Ltd. model number BL2105-Ex. The battery pack may be replaced in the hazardous area. The battery pack is only allowed to be charged in the non-hazardous area using battery charger model numbers CH10L33, CH20L24 or MCL41. Maximum permissible input voltage of the battery charger is $U_m \leq 250V$.

The top of the radios have a channel selector and volume knob switch and an orange push button for high priority call. The left side of the radios contains a push to talk button and three programming keys. The right side of the radio has a connection port for the remote microphone, remote earpiece connection or the audio Accessories adaptor, Part Number POA203P-Ex. The accessories adapter is use for making connections to other handheld speakers or earpieces that are Approved or Certified for Intrinsically Safe Entity Connections.

The radios have both Bluetooth and Wi-Fi. Wi-Fi is to be used for upgrading the radio and configuring the radio, etc. Bluetooth is mainly used for maintenance purposes of the radio, such as checking logs, etc.

In addition to the batteries, there are multiple accessories for use with the radios. The accessories consist of a handheld remote speaker, part number SM26N13P-Ex, the remote earpiece, part number. EHN38P-Ex, the battery belt adaptor, part number POA211, the leather cases, part number LCY028 and LCY029 having options for a Strap, Part RO04 or/and a Belt Clip, Part BC39, and various antenna options, Models AN0375H10, AN0375H11, AN0435H15, AN0435H16, AN0375H14, AN0375H15, AN0435H21, AN0435H22, AN0485H10, AN0485H11, AN0485H15, AN0485H16, AN0350H05, AN0350H06, AN0405H11, AN0405H12, AN0390H06, AN0390H07, AN0415H13, AN0415H14, AN0437H01, AN0437H02, AN0405H15, AN0405H16, AN0390H10, AN0390H11, AN0415H17, AN0415H18, AN0437H06 AN0437H07, AN0873H07, AN0873H08, AN0873H02, AN0873H03, AN0141H11, AN0141H12, AN0153H12, AN0153H13, AN0167H11, AN0167H12, AN0141H09, AN0141H10, AN0153H10, AN0153H11, AN0167H09, AN0167H10, AN0155H08, AN0155H09, AN0155H17, AN0155H18, AN0390H08, AN0415H15 or AN0838H08.

Mechanical Construction

The HP79XEx and HP71XEx radios are constructed of blue and black polymeric materials. The PT890Ex radio is constructed of red and black polymeric materials. All the radios have a clear polymeric window.

The radios all have a side port for accepting connection to the handheld remote speaker, Model number SM26N13P-Ex or the remote earpiece and microphone, Model EHN38P-Ex or other Approved/certified equipment having appropriate entity/energy limitation parameters. The adaptor, Model POA203P-Ex, attaches to the side port of the radios and allows for connection of other 3rd party Approved/certified equipment having energy limitation parameters.

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The handheld remote speaker, with cable, Model number SM26N13P-Ex, is constructed of polymeric materials.

The remote earpiece, Model EHN38P-Ex, contains a speaker and microphone on one end, a cable, and a clip on the other end. The earpiece is constructed of black polymeric materials.

The optional leather cases, Models LCY028 and LCY029, encase the radios for protection and also contain a button for clipping the leather case to a belt.

The adaptor, Model POA211, is an optional belt clip which attaches to the back of the battery when the belt clip BC39 is not used.

The top of the radios contains a threaded port for connection of an antenna option.

Electrical Ratings

The radios are powered by a lithium-ion battery pack have a nominal voltage of 7.4V. Only battery pack part number BL2105-Ex is for use with the radios.

The radios have several RF output options which consist of the Radio Frequency, the Wi-Fi frequency and the Bluetooth frequency. The RF antenna power output has a maximum of 2 Watts for the HP79XEx IIC, HP71XEx IIC and PT890Ex series radios and a maximum of 6 Watts for the HP79XEx IIA and HP71XEx IIA series radios. The RF power for the Wi-Fi signal and Bluetooth signal is less than 500mW for any radio.

Connections to side port shall only be made with an Approved or Certified Intrinsically Safe equipment having appropriate entity/energy limitation parameters, or the handheld microphone and earpiece as described above.

The energy limitation parameters of the connecting equipment shall have a $U_i \geq 8.7V$, $I_i \geq 2.75A$ and a $P_i \geq 1.36W$. The connecting cable capacitance plus the C_i shall not exceed $C_o = 3.2\mu F$ and the connecting cable inductance plus the L_i shall not exceed $L_o = 2.6\mu H$.

Environmental Ratings

The Model HP79XEx IIC, HP71XEx IIC and PT890Ex Series Handheld Radios are rated for an ambient temperature range of $-25^{\circ}C$ to $+60^{\circ}C$.

The Model HP79XEx IIA and HP71XEx IIA Series Handheld Radios are rated for an ambient temperature range of $-25^{\circ}C$ to $+50^{\circ}C$.

The accessories are rated for an ambient temperature range of $-25^{\circ}C$ to $+60^{\circ}C$.

The radio enclosures have an Enclosure Type of Protection, IP66; IP67; IP68*

*IPX8 testing was complete at a depth of 2 meters for 4 hours.

The remote speaker Part No. SM26N13P-Ex has an Enclosure Type of Protection: IP66; IP67.

14. Specific Conditions of Use:

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1. The radios shall only be used with Lithium-ion rechargeable battery pack identified as Hytera Communications Co., Ltd. part number BL2105-Ex.
2. Recharging of the Lithium-ion rechargeable battery pack shall only be performed in the non-hazardous area with a maximum ambient of 45°C using only battery chargers identified as Hytera Communications Co., Ltd. part numbers CH10L33, CH20L24 or MCL41.
3. The radios shall only be used with optional remote speaker microphone accessory identified as Hytera Communications Co., Ltd. part number SM26N13P-Ex.
4. The radios shall only be used with optional earpiece and microphone accessory identified as Hytera Communications Co., Ltd. part number EHN38P-Ex.
5. The radios shall only be used with optional adaptor, identified as Hytera Communications Co., Ltd. part number Model POA203P-Ex.
6. The radios may also be used with the option Leather cases, identified as Hytera Communications Co., Ltd. part numbers LCY028 or LCY029. .
7. The radios may be used with the optional belt clip adapter, identified as Hytera Communications Co., Ltd. part number POA211.
8. The radios shall only be used with antenna identified as Hytera Communications Co., Ltd. part numbers: AN0375H10, AN0375H11, AN0435H15, AN0435H16, AN0375H14, AN0375H15, AN0435H21, AN0435H22, AN0485H10, AN0485H11, AN0485H15, AN0485H16, AN0350H05, AN0350H06, AN0405H11, AN0405H12, AN0390H06, AN0390H07, AN0415H13, AN0415H14, AN0437H01, AN0437H02, AN0405H15, AN0405H16, AN0390H10, AN0390H11, AN0415H17, AN0415H18, AN0437H06, AN0437H07, AN0873H07, AN0873H08, AN0873H02, AN0873H03, AN0141H11, AN0141H12, AN0153H12, AN0153H13, AN0167H11, AN0167H12, AN0141H09, AN0141H10, AN0153H10, AN0153H11, AN0167H09, AN0167H10, AN0155H08, AN0155H09, AN0155H17, AN0155H18, AN0390H08, AN0415H15 or AN0838H08.

15. Essential Health and Safety Requirements:

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

16. Test and Assessment Procedure and Conditions:

This EU-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Europe Ltd's ATEX Certification Scheme.

17. Schedule Drawings

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body.

18. Certificate History

Details of the supplements to this certificate are described below:

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Member of the FM Global Group

Date	Description
21 September 2023	Original Issue.

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ANNEX

HP71XEx IIA BW Handheld Radio

Equipment Ratings:

Equipment Group I, Category M2; Ex ib I Mb Tamb = -25°C to +50°C;
Equipment Group II, Category 2G; Ex ib IIA T4 Gb Tamb = -25°C to +50°C;
Explosive Atmospheres;
Enclosure Degree of Protection IP66; IP67; IP68

Markings:

I M2 Ex ib I Mb
II 2G Ex ib IIA T4 Gb
Tamb = -25°C to +50°C
IP66; IP67; IP68

Description of Equipment:

Model Code:

X = (Region) :

- 0: China mainland
 - 2: North America, Australia & New Zealand
 - 5: EU
 - 6: South & Latin America
 - 8: Asia (except China mainland)
 - 9: The Middle East and Africa
- BW = (Frequency Range) :
- U3: 350MHz~400MHz
 - U9: 400MHz~480MHz
 - VHF: 136MHz~174MHz

Energy Limitation Parameters for side port:

Uo = 8.7V, Io = 2.75A, Po = 9.52W, Co = 3.2μF, Lo = 2.6μH.

HP71XEx IIC BW Handheld Radio

Equipment Ratings:

Equipment Group I, Category M2; Ex ib I Mb Tamb = -25°C to +60°C;
Equipment Group II, Category 2G; Ex ib IIC T4 Gb Tamb = -25°C to +60°C;
Explosive Atmospheres;
Enclosure Degree of Protection IP66; IP67; IP68

Markings:

I M2 Ex ib I Mb
II 2G Ex ib IIC T4 Gb

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Tamb = -25°C to +60°C

IP66; IP67; IP68

Description of Equipment:

Model Code:

X = (Region) :

0: China mainland

2: North America, Australia & New Zealand

5: EU

6: South & Latin America

8: Asia (except China mainland)

9: The Middle East and Africa

BW = (Frequency Range) :

U3: 350MHz~400MHz

U9: 400MHz~480MHz

VHF: 136MHz~174MHz

Energy Limitation Parameters for side port:

Uo = 8.7V, Io = 2.75A, Po = 9.52W, Co = 3.2μF, Lo = 2.6μH.

HP79XEx IIA BW Handheld Radio

Equipment Ratings:

Equipment Group I, Category M2; Ex ib I Mb Tamb = -25°C to +50°C;

Equipment Group II, Category 2G; Ex ib IIA T4 Gb; Tamb = -25°C to +50°C;

Equipment Group II, Category 2D; Ex ib IIIC T120°C Db; Tamb = -25°C to +50°C;

Explosive Atmospheres;

Enclosure Degree of Protection IP66; IP67; IP68

Markings:

Intrinsically Safe

I M2 Ex ib I Mb

II 2G Ex ib IIA T4 Gb

II 2D Ex ib IIIC T120°C Db

Tamb = -25°C to +50°C

IP66; IP67; IP68

Description of Equipment:

Model Code:

X = (Region) :

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2: North America, Australia & New Zealand

5: EU

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U3: 350MHz~400MHz
U9: 400MHz~480MHz
VHF: 136MHz~174MHz

Energy Limitation Parameters for side port:

$U_o = 8.7V$, $I_o = 2.75A$, $P_o = 9.52W$, $C_o = 3.2\mu F$, $L_o = 2.6\mu H$.

HP79XEx IIC BW Handheld Radio

Equipment Ratings:

Equipment Group I, Category M2; Ex ib I Mb Tamb = -25°C to +60°C
Equipment Group II, Category 2G; Ex ib IIC T4 Gb Tamb = -25°C to +60°C;
Equipment Group II, Category 2D; Ex ib IIIC T120°C Db Tamb = -25°C to +60°C;
Explosive Atmospheres;
Enclosure Degree of Protection IP66; IP67; IP68

Markings:

Intrinsically Safe
I M2 Ex ib I Mb
II 2G Ex ib IIC T4 Gb
II 2D Ex ib IIIC T120°C Db
Tamb = -25°C to +60°C
IP66; IP67; IP68

Description of Equipment:

Model Code:

X = (Region) :

0: China mainland

2: North America, Australia & New Zealand

5: EU

6: South & Latin America

8: Asia (except China mainland)

9: The Middle East and Africa

BW = (Frequency Range) :

U3: 350MHz~400MHz

U9: 400MHz~480MHz

VHF: 136MHz~174MHz

Energy Limitation Parameters for side port:

$U_o = 8.7V$, $I_o = 2.75A$, $P_o = 9.52W$, $C_o = 3.2\mu F$, $L_o = 2.6\mu H$.

PT890Ex BW Handheld Radio

Equipment Ratings:

Equipment Group I, Category M2; Ex ib I Mb Tamb = -25°C to +60°C;
Equipment Group II, Category 2G; Ex ib IIC T4 Gb Tamb = -25°C to +60°C;

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Equipment Group II, Category 2D; Ex ib IIIC T90°C Db Tamb = -25°C to +60°C;
Explosive Atmospheres;
Enclosure Degree of Protection IP66; IP67; IP68

Markings:

Intrinsically Safe
I M2 Ex ib I Mb
II 2G Ex ib IIC T4 Gb
II 2D Ex ib IIIC T90°C Db
Tamb = -25°C to +60°C
IP66; IP67; IP68

Description of Equipment:

Model Code:

BW = (Frequency Range) :

F1: 320MHz~380MHz

Fv: 380MHz~475MHz

F5: 806MHz~870MHz

Energy Limitation Parameters for side port:

Uo = 8.7V, Io = 2.75A, Po = 9.52W, Co = 3.2μF, Lo = 2.6μH.

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Blueprint Report

Hytera Communications Co Ltd (113560)

Class No 3610

Original Project I.D. 463463

Certificate I.D. FM23ATEX0033X

<u>Drawing No.</u>	<u>Revision Level</u>	<u>Drawing Title</u>	<u>Last Report</u>
HYT-BOM-EHN38P-001	V1.0	EHN38P-Ex BOM	463463
HYT-MD-EHN38P-001	D1	EHN38P-Ex_Accessory_Cable_and Connectors	463463
HYT-MD-EHN38P-002	D1	EHN38P-Ex_Mechanical Assembly Drawing	463463
HYT-SCH-EHN38P-001	V1.0	EHN38P-Ex_Schematic	463463
HYT-SMT-EHN38P-001	V01	EHN38P-Ex_PCB	463463
HYTERA-BOM-Battery-001	V3.0	BOM of BL2802-Ex&BL2105-Ex Battery Protection Board	463463
HYTERA-BOM-CH10L33&CH20L24-001	V1.0	BOM of CH10L33&CH20L24	463463
HYTERA-BOM-HP79XEx-001	V3.0	BOM of HP79XEx&HP71XEx U3/U9	463463
HYTERA-BOM-HP79XEx-002	V3.0	BOM of HP79XEx&HP71XEx VHF	463463
HYTERA-BOM-HP79XEx-005	V1.0	BOM of Side Board for 13-PIN Accessory Interface	463463
HYTERA-BOM-HP79XEx-006	V1.0	BOM of EARMIC KEY FPC	463463
HYTERA-BOM-HP79XEx-007	V1.0	BOM of Keypad	463463
HYTERA-BOM-HP79XEx-008	V1.0	BOM of LED&MIC&knob FPC	463463
HYTERA-BOM-HP79XEx-009	V1.0	BOM of LED&MIC&CODEC Connector Board	463463
HYTERA-BOM-HP79XEx-010	V1.0	BOM of PTT FPC	463463
HYTERA-BOM-HP79XEx-011	V1.0	BOM of GOB Small Board	463463
HYTERA-BOM-MCL41-002	V1.0	BOM of MCL41	463463
HYTERA-BOM-POA203P-Ex-001	V1.0	BOM of Circuit Board of POA203P-Ex Adaptor for Audio Accessories	463463
HYTERA-BOM-PT890EX-001	V2.0	BOM of PT890Ex FV or F1	463463
HYTERA-BOM-PT890EX-002	V2.0	BOM of PT890Ex F5	463463
HYTERA-BOM-SM26N13P-Ex-001	V2.0	BOM of Main Circuit Board of SM26N13P-Ex	463463
HYTERA-BOM-SM26N13P-Ex-002	V1.0	BOM of Interface Circuit Board of SM26N13P-Ex	463463
HYTERA-LAB-HP71XEx-001	V3.0	The Labels of Hytera HP710Ex IIC	463463
HYTERA-LAB-HP71XEx-002	V2.0	The Labels of Hytera HP710Ex IIA	463463
HYTERA-LAB-HP79XEx-001	V3.0	The Labels of Hytera HP79XEx IIC	463463
HYTERA-LAB-HP79XEx-002	V2.0	The Labels of Hytera HP79XEx IIA	463463
HYTERA-LAB-PT890Ex-001	V2.0	The Labels of Hytera PT890Ex	463463
HYTERA-MD-AluminumCase-001	A	Mechanical Drawing of HP79XEx&HP71XEx Aluminum Case	463463
HYTERA-MD-AluminumCase-002	A	Mechanical Drawing of PT890Ex Aluminum Case	463463
HYTERA-MD-Antenna-001	A	Mechanical Drawing of 9cm Antenna	463463
HYTERA-MD-Antenna-002	A	Mechanical Drawing of 17cm Antenna	463463
HYTERA-MD-Antenna-003	A	Mechanical Drawing of 20cm Antenna	463463
HYTERA-MD-Antenna-004	A	Mechanical Drawing of 6.5cm Antenna	463463
HYTERA-MD-BL2105-Ex-001	A	General Mechanical Assembly Drawing of Battery BL2105-Ex	463463
HYTERA-MD-HP71XEx-001	A	General Mechanical Assembly Drawing of HP71XEx	463463
HYTERA-MD-HP71XEx-002	A	Mechanical Drawing of HP71XEx Front Case	463463
HYTERA-MD-HP79XEx-001	A	General Mechanical Assembly Drawing of HP79XEx	463463
HYTERA-MD-HP79XEx-002	A	Mechanical Drawing of HP79XEx Front Case	463463
HYTERA-MD-LCD-001	A	Mechanical Drawing of HP79XEx&PT890Ex 2.41 inch LCD Screen	463463
HYTERA-MD-Leather Case-001	A	General Mechanical Assembly Drawing of LCY028	463463
HYTERA-MD-Leather Case-002	A	General Mechanical Assembly Drawing of LCY029	463463
HYTERA-MD-OLED-001	A	Mechanical Drawing of HP71XEx 0.91 inch OLED Screen	463463
HYTERA-MD-POA203P-Ex-001	A1	Appearance Drawing of POA203P-Ex Adaptor	463463
HYTERA-MD-POA203P-Ex-002	A1	General Mechanical Assembly Drawing of POA203P-Ex Adaptor	463463
HYTERA-MD-POA211-001	A1	General Mechanical Assembly Drawing of POA211	463463
HYTERA-MD-PT890Ex-001	A	General Mechanical Assembly Drawing of PT890Ex	463463
HYTERA-MD-PT890Ex-002	A2	Mechanical Drawing of PT890Ex Front Case	463463
HYTERA-MD-RO04 Strap-001	D1	General Mechanical Assembly Drawing of RO04 Strap	463463
HYTERA-MD-RearCase-001	A	Mechanical Drawing of HP79XEx&HP71XEx Rear Case	463463
HYTERA-MD-RearCase-002	A	Mechanical Drawing of PT890Ex Rear Case	463463
HYTERA-MD-SM26N13P-Ex-001	A	Mechanical Assembly Drawing of SM26N13P-Ex	463463
HYTERA-MD-SM26N13P-Ex-002	A	Mechanical Drawing of SM26N13P-Ex Back Case	463463
HYTERA-MD-SM26N13P-Ex-003	A	Mechanical Drawing of SM26N13P-Ex Front Case	463463
HYTERA-PCB-Battery-001	G	PCB Assembly of Battery BL2105-Ex&BL2802-Ex	463463
HYTERA-PCB-Battery-002	G	PCB Layout of Battery BL2105-Ex&BL2802-Ex	463463
HYTERA-PCB-CH10L33-001	B	PCB Assembly of CH10L33&CH20L24 Mainboard	463463
HYTERA-PCB-CH10L33-002	B	PCB Layout of CH10L33&CH20L24 Mainboard	463463
HYTERA-PCB-HP79XEx-001	H	PCB Assembly of HP79XEx&HP71XEx U3&U9 Mainboard	463463

HYTERA-PCB-HP79XEx-002	H	PCB Layout of HP79XEx&HP71XEx U3&U9 Mainboard	463463
HYTERA-PCB-HP79XEx-003	D	PCB Assembly of HP79XEx&HP71XEx VHF Mainboard	463463
HYTERA-PCB-HP79XEx-004	D	PCB Layout of HP79XEx&HP71XEx VHF Mainboard	463463
HYTERA-PCB-HP79XEx-005	D	PCB Assembly of Side Board for 13-PIN Accessory Interface	463463
HYTERA-PCB-HP79XEx-006	D	PCB Layout of Side Board for 13-PIN Accessory Interface	463463
HYTERA-PCB-HP79XEx-007	C	PCB Assembly of EARMIC KEY FPC	463463
HYTERA-PCB-HP79XEx-008	C	PCB Layout of EARMIC KEY FPC	463463
HYTERA-PCB-HP79XEx-009	C	PCB Assembly of Keypad	463463
HYTERA-PCB-HP79XEx-010	C	PCB Layout of Keypad	463463
HYTERA-PCB-HP79XEx-011	C	PCB Assembly of LED&MIC&CODEC FPC	463463
HYTERA-PCB-HP79XEx-012	C	PCB Layout of LED&MIC&CODEC FPC	463463
HYTERA-PCB-HP79XEx-013	A	PCB Assembly of LED&MIC&CODEC Connector Board	463463
HYTERA-PCB-HP79XEx-014	A	PCB Layout of LED&MIC&CODEC Connector Board	463463
HYTERA-PCB-HP79XEx-015	C	PCB Assembly of PTT FPC	463463
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