



***DMR Conventional Radio
Release Notes***



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Contents






- Documentation Information 1**
- 1. Product Information..... 2**
- 2. What's New in This Release..... 4**
 - 2.1 Introduction 4
 - 2.2 Radio..... 4
 - 2.2.1 New Features 4
 - 2.2.2 Enhanced Features 6
 - 2.3 Repeater 10
 - 2.3.1 New Features 10
 - 2.3.2 Enhanced Features 12
 - 2.4 Application 12
 - 2.4.1 Enhanced Features 12
- 3. Important Notes 14**
 - 3.1 Radio..... 14
 - 3.1.1 Software..... 14
 - 3.1.2 Hardware 14
 - 3.2 Repeater 14
 - 3.3 Accessory..... 14
- 4. Resolved Issues..... 15**
- Appendix A: New Models Supporting 1PPS 16**

Documentation Information

This section describes the conventions and revision history of this document.

Conventions

Icons

Icon	Description
 Tip	Indicates information that can help you make better use of your product.
 Note	Indicates references that can further describe the related topics.
 Caution	Indicates situations that could cause data loss or equipment damage.
 Warning	Indicates situations that could cause minor personal injury.
 Danger	Indicates situations that could cause major personal injury or even death.

Notations

Item	Description
" "	The quotation marks enclose the name of a software interface element. For example, click "OK".
Bold	The text in boldface denotes the name of a hardware button. For example, press the PTT key.
->	The symbol directs you to access a multi-level menu. For example, to select "New" from the "File" menu, we will describe it as follows: File -> New.

Revision History

Version	Release Date	Description
V1.0	September, 2018	Initial Release.

1. Product Information

Firmware Version

Radio Model	Version
Portable (PD6XX, PD7XX, PD8XX, PD98X and X1 series) Mobile(MD6XX and MD7XX series)	A9.00.04.405.iM S9.00.04.405.iM M9.00.04.405.iM N9.00.04.405.iM C9.00.04.405.iM
Repeater	A9.00.08.508.iM S9.00.08.508.iM N9.00.08.508.iM C9.00.08.508.iM

Application Version

Application	Version
Customer Programming Software (CPS)	V9.00.07.712.iM
Debug and Testing Software (Tuner)	V9.00.01.008
Repeater Diagnostics And Control (RDAC)	V8.05.01.003
DMR Record Manager	V1.00.01.002

Documentation

In this release, the following documents are available:

Document	Description
DMR Conventional Radio_Release Notes_R9.0_V1.0	Initial release
DMR Conventional Radio_Feature List_R9.0	Update
DMR Conventional Radio_GPS_Application Notes_R3.0	Update

Document	Description
DMR Conventional Mobile Radio_Clarify Transmission_ Application Notes_R2.0	Update
DMR Conventional Radio_BT_User Manual_R9.0	Update
DMR Radio_Record_Application Notes_R2.0	Update
DMR Conventional Radio_System Planner_R5.0	Update
DMR Repeater_Fushion System_Application Note_R1.0	Initial release
DMR Conventional Repeater and Mobile Radio_Wireless Link Communication_Application Notes_R1.0	Initial release
DMR Repeater_Back-to-Back_Application Notes_R2.0	Update
DMR Mobile Radio_Back-to-Back_Application Notes_R2.0	Update
DMR Conventional Radio_Full Duplex Call_Application Notes_R2.0	Update
XPT System_Product Description_R5.0	Update
XPT System_Application Notes_R6.0	Update
DMR Radio_Upgrade Guide_R9.0	Update
DMR Repeater_Upgrade Guide_R9.0	Update
XNMS Help	Update
OTAP Help	Update
CPS Help	Update
TUNER Help	Update

2. What's New in This Release

2.1 Introduction

R9.0 is an upgrade version based on R8.5. This document only describes features added or enhanced in R9.0.

Unless otherwise specified, the new and enhanced features described in this document are available to all radios in [Firmware Version](#) of Chapter 1 [Product Information](#).

2.2 Radio

2.2.1 New Features

2.2.1.1 XPT Trunking Features

Full Duplex Call

The full duplex call is available in XPT mode. Full duplex call refers to a private call, during which both the called party and the calling party can send and receive voice simultaneously.

The full duplex call can be established between two radios or between a radio and a PABX/PSTN phone. Radios with this feature are ideal for scenarios where long talk time is required and both hands are occupied, such as field operation guidance, on-site status reporting, emergency and rescue.

For details, refer to *XPT System_Application Notes*.

CPS Path:

XPT Trunking -> Digital Common -> Basic -> Full Duplex.

2.2.1.2 Conventional Features

Wireless Link Communication

The mobile radio and the repeater can be connected through a UART cable to establish a wireless link for digital services (voice, data or signaling) transmission.

This feature is applicable to the scenarios where IP Multi-site Connect is not available due to internet restriction, and wirelessly connects the repeaters to expand the communication coverage.

For details, refer to *DMR Conventional Radio (Repeater and Mobile Radio)_Wireless Link Communication_Application Notes*.



Note

The mobile radio connects with the repeater with PC142 UART cable.

Mix Receive in Digital Channel

With this feature enabled, the radio can receive or call back analog calls on digital channel. Please note the radio

can initiate digital calls on this digital channel only, but cannot initiate analog calls.

CPS Path:

Conventional -> Channel -> Digital Channel -> CH DX -> Mix Receive.

Accessory Port Communication

User can select OB (option board) via CPS for the mobile radio MD78Xi to transfer data with external devices. To realize this feature, a chipset is added to connect the 10pin and 19pin to with OMAP5912_USB (USB port of radio CPU), OMAP5912_UART (UART port of radio CPU) or GOB_USB (USB port of option board in radio).

CPS Path:

Conventional -> General Setting -> Network -> Radio to PC Network.

TX To RX Delay Time in Analog Channel

In analog simulcast system, the radio may receive its transmitted voice signal if the system delays in forwarding. The TX To RX Delay Time extends the time the radio enters RX mode after transmitting voice signal. This feature is available in Repeater Mode only.

- The radio starts TX To RX delay timer when the user releases PTT to end transmission.
- The radio cannot receive analog call until TX To RX Delay Time expires.
- The radio can initiate a new analog call within TX To RX Delay Time, and restarts TX To RX delay timer after the call is transmitted.
- The radio stays in standby mode within TX To RX Delay Time.

CPS Path:

Conventional -> Channel -> Analog Channel -> CH AX -> TX To RX Delay Time.

Single GPS

With this feature enabled, the radio reports GPS data in Unified Single Block Data manner and only transmits longitude, latitude, reason for sending and source address to the dispatch station. This feature saves channel resource and increases GPS data transmission speed.

CPS Path:

Conventional/XPT Trunking -> General Setting -> Accessories -> GPS -> Quick GPS

**Note**

The Single GPS is available only when Quick GPS is enabled, and enlarges system capacity to triple or quadruple users for GPS data transmission.

2.2.1.3 Common Features

QR Code (Quick Response Code)

The QR Code helps user quickly recognize the radio. User can input radio SN or self-defined information via CPS for QR code, and display the QR code via radio menu (Menu -> Settings -> QR Code).

CPS Path:

Common -> Setting -> Quick Response Code.

Fixed Channel TX Contact

With this feature enabled, the radio makes calls to only TX contact preset on the digital channel. The following features will be disabled:

All Call Talkback in Private Mode, Alert Call Talkback, Manual Dial, the Enable option in Default Numeric Key Selection, the Digital option in Call Mode column of One Touch Call/Menu, and the Manual Dial option in Menu/Feature List of One Touch Call/Menu.

CPS Path:

Conventional -> Digital Common -> Basic -> Miscellaneous -> Fixed Using Channel Tx Contact.

2.2.2 Enhanced Features

2.2.2.1 Conventional Features

Back-to-Back

In previous versions, only two mobile radios can be connected to realize this feature. In this version, the mobile radio can connect with the repeater to realize this feature. The Back-to-Back feature is used to realize cross-band communication among analog and digital radios. For details, refer to *DMR Mobile*

Radio_Back-to-Back_Application Notes_R2.0.

Frequency Division Duplex (FDD)

In R8.5, the radio can initiate full duplex call to the other radio in Direct Mode only. In this version, the radio can initiate full duplex call in Repeater Mode and to PABX/PSTN phone as well.

Only PD98X, MD78X and MD78Xi duplex radio support this feature. For details, refer to *DMR Conventional Radio_Full Duplex Call_Application Notes*.

CPS Path:

Conventional -> Digital Common -> Basic -> Full Duplex.

Mode Switch

- Seamless Switch

The radio does not restart when switching among conventional, digital trunking and analog trunking modes, and enables corresponding features of the switched mode immediately.

- **Channel/Group Knob**

If conventional/XPT channels are added to digital trunking subgroup, user can switch between conventional/XPT mode and digital trunking mode via the Channel/Group Knob.

For details, refer to *DMR Trunking Radio_Mode Automatic Switch_Application Notes* ([For more information, contact your salesperson](#)).

CPS Path:

Common -> Setting -> Mode -> Zone/Subgroup Switch Mode.

TF Card GPS Record

The radio can record GPS data to the TF card (Micro SD card) according to Time, Distance, Time or Distance, and Time and Distance set in GPS Trigger. The radio stores GPS data (valid data) in dat. file for 30 days at most and automatically overwrites the earliest data. User can read GPS data via Smart Dispatch to view radio tracks.

CPS Path:

Conventional -> General Setting -> Accessories -> GPS -> TF Card GPS Record.

Alert Tones

The alert tones are optimized for better user experience.

- Out of Range Tone is added in conventional (repeater mode)/XPT mode.
- Cycles of the Alert Call Tone can be set as 1~10 or Infinite.
- Some customers feedback ring time of Channel Busy Tone and Call Fail Tone too short. In this version, the two tones will not stop until user releases PTT.

CPS Path:

Conventional -> General Setting -> UI Indication -> Alert Tones.



Note

The Channel Busy Tone and Call Fail Tone for emergency, analog channel and mix receive remain unchanged.

Local Emergency Siren

The Local Emergency Siren is added to Digital Emergency (The Digital Emergency System is increased from 64 to 255 in this version). With this feature enabled, the radio gives siren when it enters emergency stay mode.

During emergency signal receiving or transmitting, the radio does not give siren.

CPS Path:

Conventional -> Emergency -> Digital Emergency -> DigitalSys N -> Local Emergency Siren.



Note

This feature is available only when Emergency Type is set to **Regular** and Emergency Mode is set to **Alarm w/Call** or **Call Only**.

2.2.2.2 General Features

Clarity Transmission (Multiple Data Packets)

The maximum transmission unit for Clarity Transmission is 512 bytes. If the data is more than 512 bytes but less than or equal to 1.5K, it will be splits as several packets before transmission. If more than 1.5K, the excess data will be discarded.

CPS Path:

- Conventional -> General Setting -> Network -> Radio to PC Network -> Accessory Port Communication (set as UART Clarity Transmission).
- Common -> Accessories -> Basic Setting -> Accessory Port UART Baudrate/Parity Bit/Data Bit/Stop Bit.



Note

The TX contact on digital channel must be configured and cannot be an all call contact.

Menu

If the menu has only one option, the radio skips it and directly accesses to its sub-menu.

The rules for such menu are as below.

- The menu must be a fixed one and has only one option.
- The association with other menus will not be affected.
- The radio cannot skip the One Touch Menu, but can skip its sub-menu.

Voice Buffer

This feature prevents voice data loss during call setup. With it enabled, when user presses **PTT**, the radio immediately activates MIC and stores the voice in the buffer. After the call is set up, the radio transmits the voice according to storage order.

CPS Path:

Conventional -> Digital Common -> Basic -> Miscellaneous -> Voice Buffer.

Power Auto Adjust

This feature is available for the portable radios with high or middle power level in Repeater Mode. With this feature enabled, the radio automatically adjusts TX power according to repeater RSSI during transmitting. When

the radio detects strong signals, it decreases the TX power; otherwise, it increases the TX power.

PD98X can switch among High, Middle and Low levels, but other radios only High and Low levels.

CPS Path:

Conventional -> Digital Common -> Basic -> Power Auto Adjust.

Embedded Information

This feature is used to store some important information in the radio, such as ESN, programming file name, asset ID. The embedded information cannot be cloned and is written into the radio separately. For security, you can set a password to modify the embedded information.

CPS Path:

Radio Information -> Embedded Information.

Out of Range Reminder

With this feature enabled, the radio displays "Out Of Range" when it is out of repeater coverage (not receiving the beacon signal from the repeater within Beacon Interval).

CPS Path:

Conventional -> Digital Common -> Basic -> Miscellaneous -> Out of Range Reminder.

Backlight

To save power, user can set whether the backlight keeps on during call transmitting or receiving.

CPS Path:

- Common -> UI Setting -> Backlight -> On PTT Services.
- Common -> UI Setting -> Backlight -> On Receiving Over-the-Air.

Call Location

The radio without positioning chipset can display the received latitude and longitude during a call.

Covert Mode

Microphone can be set under covert mode.

- Checked: The internal MIC is disabled. The radio uses external MIC only under covert mode.
- Unchecked: The internal MIC is not disabled.

CPS Path:

Common -> UI Setting -> Covert Mode -> Select Covert Feature -> Microphone.

All Call Vibration

The all call is a special group call. When Group Call Vibration is enabled, the radio vibrates as well when receiving an all call. The Vibration Duration (100~25000ms), Vibration Interval (100~25000ms) and Vibration Cycles (1~255) of all call are the same as those of group call.

CPS Path:

Conventional -> General Setting -> UI Indication -> Vibration.

Smart Battery Software Upgrade

In this version, the DMR Accessories Upgrade Tool is developed for battery software upgrade.

The operations are as below.

Step 1 Connect the radio to PC (with battery upgrade tool) through programming cable.

The battery upgrade tool starts to load the upgrade file.

Step 2 Run the upgrade tool.

Step 3 Click **Upgrade** on main interface of the upgrade tool.

The upgrade tool sends the command to request the radio to enter battery upgrade mode.

In battery upgrade mode, the radio collects upgrade data from the upgrade tool, and then sends the requested data to the upgrade tool.

Step 4 Restart the radio after upgrade.



Note

Only PD98X supports the smart battery.

BT MIC

For easy operation, BT MIC of the portable radio can be enabled or disabled through MIC&SPK menu.

CPS Path:

General Setting -> Menu -> Common Menu -> MIC&SPK.

2.3 Repeater

R9.0 is an upgrade version based on R8.5. This document only describes features added or enhanced in R9.0.

2.3.1 New Features

Wireless Link Communication

Wireless Link Communication is a solution based on UART port. With the feature, the repeater connects with mobile radio to establish a wireless link for digital service transmission. This feature is applicable to the scenarios

where the IP Multi-Site Connect feature is not available due to internet restrictions.

For details, refer to *DMR Conventional Radio_Wireless Link Communication_Application Notes*.

CPS Path:

- Common -> Accessories -> Basic Setting.
- General Setting -> Accessories -> GPIO Pins.
- General Setting -> Accessories -> Priority Control.

Fusion System

The Fusion System is used to realize the communication between different systems, such as IP Multisite Connect system and XPT system. With this feature enabled, the repeater maps group call or private call into system ID according to the Mapping Table, and then sends the system ID to another repeater in the other system. This repeater decodes the system ID into local number for repeating.

For details, refer to *DMR Repeater_Fusion System_Application Note*.

CPS Path:

- Conventional -> Fusion System.
- XPT Trunking -> Fusion System.

Frequency Division Duplex (FDD)

In previous version, the radio can only initiate half-duplex call in repeater mode. Both parties cannot communicate with each other simultaneously. Once a party begins transmitting signal, it can receive only after the transmission ends. In this version, the radio supports full duplex call in repeater mode.

The full duplex call takes up two slots of the repeater. For example, MS1 initiates a call on slot 1. After the call is set up, MS1 transmits voice on slot 2 of the repeater, and receives voice on slot 1 of the repeater. MS2 transmits voice on slot 1 of the repeater, and receives voice on slot 2 of the repeater.

The SIP Phone takes the repeater as a carrier to realize the communication between the radio and telephone. The telephone terminal supports full duplex call. If the radio supports full duplex call as well, it can communicate with the telephone simultaneously through the repeater. The radio transmits the voice to the telephone on one slot of the repeater, while receives the voice from the telephone on the other slot.

Currently, the repeater supports the full duplex call between radios or radio and telephone in single site (conventional), IP multi-site connect system and XPT system, but does not support the full duplex call between radio and repeater or radio and third-party software.

For details, refer to *DMR Conventional Radio_Full Duplex Call_Application Notes*.

Operations:

1. Enable the Full Duplex Call (The repeater with firmware R9.0 or above supports the feature by default).
2. Configure the phone parameters (operations are the same as those for half-duplex call, but the Radio De-key Beep Enable feature will be disabled for full duplex call).

CPS Path:

Conventional -> Phone -> Phone Call -> Phone Call List -> Call Type (Full Duplex Call added).

Rent

Users can rent the repeater. When the rental is due, the repeater is unusable except for power on/off and programming. Users shall contact the dealer for reprogramming.

CPS Path:

Common -> Rent.

Primary Bootloader and Secondary Bootloader

To avoid upgrade failure, the booting process is split as primary bootloader and secondary bootloader.

- Primary bootloader is used to store the original or basic features and keeps them unchanged.
- Secondary bootloader is used to add and store new features. This bootloader is upgraded with the device.

This feature is available for RD106X only.

2.3.2 Enhanced Features

Channel Member in Zone

You can add 64 channels at most in each zone for RD98X, RD98XS and RD106X.

Backup Third Party Server IP

With this feature enabled, the repeater automatically connects the backup dispatch station when the main dispatch station operates abnormally.

2.4 Application

2.4.1 Enhanced Features

XNMS

The following features are added or enhanced in XNMS.

- Added Supervisor for users or features management.
- Optimized Topology and added Repeater Location.

- Added displays of basic information, monitor data and parameters of the selected repeater on Topology.
- Optimized Data Service and database.
- Added Access Code to ensure the security.
- Added more parameters of RDAC (Repeater Diagnostic and Control) to XNMS.
- Optimized the Report Export feature.

(For more information, please contact your nearest sales).

OTAP

In R8.0, OTAP is developed to configure the repeaters in XPT mode remotely. In R8.5, OTAP can be used to delete original parameters of the XPT repeater. In R9.0, OTAP can be used to configure the repeaters in conventional mode.

3. Important Notes

3.1 Radio

The new models that support 1PPS in this version are listed in [Appendix New Models Supporting 1PPS](#).

3.1.1 Software

- The Flashburn can program the flash of four radios at the same time. The tool is used by R&D Department, Testing Department and Manufacturing Department.
- The radio firmware R5.5 or above can be upgraded to R9.0 directly via Multi-Terminal Batch Upgrade Tool.
- The radio firmware below R5.5 must be upgraded to R5.5 or above through Upgrade Kit, and then to R9.0 via Multi-Terminal Batch Upgrade Tool. For operations, see the corresponding *DMR Radio_Upgrade Guide*.

3.1.2 Hardware

None.

3.2 Repeater

New model in R9.0: RD106X (R1060-000000P0-000000-U1-0-A).

3.3 Accessory

New accessories in this version are listed as below.

- Remote Video Microphone VM680 (30030000000503)
- Remote Video Microphone VM550 (30030000000604)
- Motorcycle Wireless Console for MD78X (16190000120P0)

4. Resolved Issues

This section introduces the solved serious problems which exist between R8.5 and R9.0.

No.	Product	Resolved Issue
001	Repeater	The SIP Remote Port 5060 cannot be modified remotely.
002	Portable/Mobile Radio	The radio B (Farsi language package) crashes and restarts when receiving remote monitor command from radio A (Arabic language package)
003	Portable/Mobile Radio	The radio crashes and restarts when user presses Call Recorder programmed key to record analog call.
004	Portable Radio	During XPT roaming, the radio crashes if user presses any key after Scrambler/Encrypt programmed key.

Appendix A: New Models Supporting 1PPS

Model	Model Number
PD780 U1	PD780-T00G00PL-M00000-U1-0-F PD780-T00G00PL-000000-U1-0-F PD780-T00R00PL-M00000-U1-0-F PD780-T00R00PL-000000-U1-0-F PD780-T00C00PL-M00000-U1-0-F PD780-T00C00PL-000000-U1-0-F PD780-T00000PL-M00000-U1-0-F PD780-T00000PL-000000-U1-0-F PD780-000G00PL-M00000-U1-0-F PD780-000G00PL-000000-U1-0-F PD780-000R00PL-M00000-U1-0-F PD780-000R00PL-000000-U1-0-F PD780-000C00PL-M00000-U1-0-F PD780-000C00PL-000000-U1-0-F PD780-000000PL-M00000-U1-0-F PD780-000000PL-000000-U1-0-F
PD780 U3	PD780-T00G00PL-M00000-U3-0-F PD780-T00G00PL-000000-U3-0-F PD780-T00C00PL-M00000-U3-0-F PD780-T00C00PL-000000-U3-0-F PD780-T00000PL-M00000-U3-0-F PD780-T00000PL-000000-U3-0-F PD780-000G00PL-M00000-U3-0-F PD780-000G00PL-000000-U3-0-F PD780-000C00PL-M00000-U3-0-F PD780-000C00PL-000000-U3-0-F PD780-000000PL-M00000-U3-0-F

Model	Model Number
	PD780-000000PL-000000-U3-0-F
PD780E U3	PD780-T00G00PE-M00000-U3-0-F PD780-T00C00PE-M00000-U3-0-F PD780-T00000PL-000000-U3-0-F PD780-000G00PE-M00000-U3-0-F PD780-000C00PE-M00000-U3-0-F PD780-000000PL-000000-U3-0-F
PD780 U7	PD780-T00000PL-M00000-U7-0-F PD780-000000PL-M00000-U7-0-F PD780-T00G00PL-M00000-U7-0-F PD780-T00G00PL-000000-U7-0-F PD780-T00000PL-M00000-U7-0-F PD780-T00000PL-000000-U7-0-F PD780-000G00PL-M00000-U7-0-F PD780-000G00PL-000000-U7-0-F PD780-000000PL-M00000-U7-0-F PD780-000000PL-000000-U7-0-F
PD750 U1	PD750-T00G00PL-M00000-U1-0-F PD750-T00G00PL-000000-U1-0-F PD750-T00000PL-M00000-U1-0-F PD750-T00000PL-000000-U1-0-F PD750-000G00PL-M00000-U1-0-F PD750-000G00PL-000000-U1-0-F PD750-000000PL-M00000-U1-0-F PD750-000000PL-000000-U1-0-F
PD700 U1	PD700-T00000PL-M00000-U1-0-F PD700-T00000PL-000000-U1-0-F PD700-000000PL-M00000-U1-0-F PD700-000000PL-000000-U1-0-F

Model	Model Number
	PD700-T00G00PL-M00000-U1-0-F PD700-T00G00PL-000000-U1-0-F PD700-T00R00PL-M00000-U1-0-F PD700-T00R00PL-000000-U1-0-F PD700-T00000PL-M00000-U1-0-F PD700-T00000PL-000000-U1-0-F PD700-000G00PL-M00000-U1-0-F PD700-000G00PL-000000-U1-0-F PD700-000R00PL-M00000-U1-0-F PD700-000R00PL-000000-U1-0-F PD700-000000PL-M00000-U1-0-F PD700-000000PL-000000-U1-0-F
PD700 U3	PD700-000G00PL-000000-U3-0-F PD700-T00G00PL-000000-U3-0-F PD700-000G00PL-M00000-U3-0-F PD700-000G00PL-000000-U3-0-F PD700-T00G00PL-M00000-U3-0-F PD700-T00G00PL-000000-U3-0-F PD700-T00000PL-M00000-U3-0-F PD700-T00000PL-000000-U3-0-F PD700-000G00PL-M00000-U3-0-F PD700-000G00PL-000000-U3-0-F PD700-000000PL-M00000-U3-0-F PD700-000000PL-000000-U3-0-F
PD700S U1	PD700-00SG00PL-M00000-U1-0-F PD700-00SG00PL-000000-U1-0-F PD700-00S000PL-M00000-U1-0-F PD700-00S000PL-000000-U1-0-F
PD780 UL913	PD780-TU0G00PL-M00000-U7-0-B

Model	Model Number
	PD780-0U0G00PL-M00000-U7-0-B
PD600Ex	PD600-TE0G00P0-100000-V1-0-A PD600-TE0G00P0-100000-Um-0-C PD600-TE0000P0-100000-V1-0-A PD600-TE0000P0-100000-Um-0-C PD600-0E0G00P0-100000-V1-0-A PD600-0E0G00P0-100000-Um-0-C PD600-0E0000P0-100000-V1-0-A PD600-0E0000P0-100000-Um-0-C
MD780I U3	MD780-T00G00P0-00000i-U3-A-A MD780-T00G00P0-00000i-U3-B-A MD780-T00R00PD-00000i-U3-A-A MD780-T00R00PD-00000i-U3-B-A MD780-T00R00P0-00000i-U3-A-A MD780-T00R00P0-00000i-U3-B-A MD780-T00C00PD-00000i-U3-A-A MD780-T00C00PD-00000i-U3-B-A MD780-T00C00P0-00000i-U3-A-A MD780-T00C00P0-00000i-U3-B-A MD780-T00000PD-00000i-U3-A-A MD780-T00000PD-00000i-U3-B-A MD780-T00000P0-00000i-U3-A-A MD780-T00000P0-00000i-U3-B-A MD780-000G00PD-00000i-U3-A-A MD780-000G00PD-00000i-U3-B-A MD780-000G00P0-00000i-U3-A-A MD780-000G00P0-00000i-U3-B-A MD780-000R00PD-00000i-U3-A-A MD780-000R00PD-00000i-U3-B-A

Model	Model Number
	MD780-000R00P0-00000i-U3-A-A MD780-000R00P0-00000i-U3-B-A MD780-000C00PD-00000i-U3-A-A MD780-000C00PD-00000i-U3-B-A MD780-000C00P0-00000i-U3-A-A MD780-000C00P0-00000i-U3-B-A MD780-000000PD-00000i-U3-A-A MD780-000000PD-00000i-U3-B-A
MD780I U1	MD780-T00G00PD-00000i-U1-A-A MD780-T00G00PD-00000i-U1-B-A MD780-T00G00P0-00000i-U1-A-A MD780-T00G00P0-00000i-U1-B-A MD780-T00R00PD-00000i-U1-A-A MD780-T00R00PD-00000i-U1-B-A MD780-T00R00P0-00000i-U1-A-A MD780-T00R00P0-00000i-U1-B-A MD780-T00C00PD-00000i-U1-A-A MD780-T00C00PD-00000i-U1-B-A MD780-T00C00P0-00000i-U1-A-A MD780-T00C00P0-00000i-U1-B-A MD780-T00000PD-00000i-U1-A-A MD780-T00000PD-00000i-U1-B-A MD780-T00000P0-00000i-U1-A-A MD780-T00000P0-00000i-U1-B-A MD780-000G00PD-00000i-U1-A-A MD780-000G00PD-00000i-U1-B-A MD780-000G00P0-00000i-U1-A-A MD780-000G00P0-00000i-U1-B-A MD780-000R00PD-00000i-U1-A-A

Model	Model Number
	MD780-000R00PD-00000i-U1-B-A
	MD780-000R00P0-00000i-U1-A-A
	MD780-000R00P0-00000i-U1-B-A
	MD780-000C00PD-00000i-U1-A-A
	MD780-000C00PD-00000i-U1-B-A
	MD780-000C00P0-00000i-U1-A-A
	MD780-000C00P0-00000i-U1-B-A
	MD780-000000PD-00000i-U1-A-A
	MD780-000000PD-00000i-U1-B-A
	MD780-000000P0-00000i-U1-A-A
	MD780-000000P0-00000i-U1-B-A



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