



DMR&PDT Subscriber Firmware Upgrade Guide

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Documentation Information

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

Documentation Conventions

Instructional 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. |

Notational Conventions

| 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 | Date | Description |
|---------|---------|---|
| R5.5 | 09-2013 | Froth release, instructing you to upgrade the firmware to R5.5(A5.05.14.004/S5.05.14.004), It is applicable to more models, such as DMR&PDT Conventional Subscriber and PDT trunking Subscriber. |

| Version | Date | Description |
|---------|---------|---|
| R5.5 | 08-2013 | Froth release, instructing you to upgrade the firmware to R5.5(A5.05.13.005/S5.05.13.005), It is applicable to more models, such as DMR&PDT Conventional Subscriber and PDT trunking Subscriber. |
| R5.0 | 11-2012 | Third release, instructing you to upgrade the firmware to R5.0(A5.00.15.001/S5.00.15.001), It is applicable to more models, such as DMR&PDT trunking Subscriber. |
| R4.5 | 06-2012 | Second release, instructing you to upgrade the firmware to R4.5 (A4.05.16.003/S4.05.16.003). |
| R4.0 | 09-2011 | Initial release, instructing you to upgrade the firmware to R4.0 (A4.00.10.001). |


1. General Information

1.1 Special Instructions before upgrade

To achieve a successful upgrade of the firmware, please carefully read the instructions below before operation:

- This document can instruct you to upgrade the firmware in subscribers of specific models to **A5.05.14.004 or S5.05.14.004**. As for the model information, please refer to the section “1.3 Model Information for Upgrade” below.
- Make sure the PC is installed with a USB driver. Otherwise, please install the USB driver first, with reference to the *Hytera USB Driver Installation User Guide of V2.01.01.008*.
- After successful upgrade, re-program the subscriber with a CPS of **V5.05.14.002** or above.
- Do not run other Hytera applications during upgrade. If the upgrade is interrupted by another application, please try the upgrade again by restarting the subscriber and entering the download mode.
- Do not disconnect the power of the subscriber during upgrade. However, if the power is disconnected or error occurs during upgrade, restart the subscriber for another try.
- If the operation of the USB driver runs out during upgrade, the system may issue “Reading data error!” or Writing data error!”. In such cases, please try the upgrade again by restarting the subscriber and entering the download mode.
- For PDT trunking model, please notes as below: for all firmware version, the voice encode type will be AMBE++ after this upgrade; Upgraded from R5.3, Customer settings will be replaced by default setting.
-  **Caution:** After firmware upgrade, if the LED flashes upon power-on, please try the upgrade again by restarting the subscriber and entering the download mode.

1.2 Firmware Version Check

 **Caution:** Please check whether the firmware is applicable before upgrade. If not applicable, please do not upgrade; otherwise the subscriber may get damaged.

Step 1 Use the match CPS to read data from the target subscriber.

Step 2 Check the “Firmware Version” and “Model Number” under the “Radio Information”, to see whether it satisfies the requirements specified in the section “1.3 Model Information for Upgrade”. Here we take MD78X for example.

The screenshot shows the 'Radio Information' window for an MD780 radio. The left sidebar lists 'MD780' with sub-items 'Radio Information', 'Common', and 'Conventional'. The main area displays the following information:

- Serial Number: 123456789
- Model Name: MD780
- Model Number: MD780-00000000-000000-U1-L-F
- Model Type: Mobile
- Frequency Range [MHz]: 400-470
- Signaling Type: DMR/HDC1200/2-Tone
- Radio Data Version: D2.05.04.001
- Firmware Version: A2.05.06.000
- Last Programmed Date: 2010.3.10

Step 3 Disconnect the CPS and subscriber.

Step 4 Power off the subscriber.

1.3 Model Information for Upgrade

1.3.1 For Conventional Subscriber

R5.0&R5.1&R5.5 Models

| Subscriber | Firmware Version | Model Number |
|------------------------|------------------|------------------------------|
| Portable Subscriber | A5.00.15.001 | PD78X-000000X0-000000-V1-0-A |
| | | PD78X-000G00X0-000000-V1-0-A |
| | S5.00.15.001 | PD78X-000G00X0-M00000-V1-0-A |
| | | PD78X-000000X0-M00000-V1-0-A |
| | A5.05.13.005 | PD78X-000000X0-000000-V1-0-B |
| | | PD78X-000G00X0-000000-V1-0-B |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD78X-000G00X0-M00000-V1-0-B |
| | | PD78X-000000X0-M00000-V1-0-B |
| | | PD78X-000000X0-000000-U1-0-F |
| | | PD78X-000G00X0-000000-U1-0-F |
| | | PD78X-000G00X0-M00000-U1-0-F |
| | | PD78X-000000X0-M00000-U1-0-F |
| | | PD78X-000000X0-000000-U1-0-H |
| | | PD78X-000G00X0-000000-U1-0-H |
| | | PD78X-000G00X0-M00000-U1-0-H |
| | | PD78X-000000X0-M00000-U1-0-H |
| | | PD78X-000000X0-000000-U1-0-K |
| | | PD78X-000G00X0-000000-U1-0-K |
| | | PD78X-000G00X0-M00000-U1-0-K |
| | | PD78X-000000X0-M00000-U1-0-K |
| | | PD78X-000000X0-000000-U2-0-K |
| | | PD78X-000000X0-M00000-U2-0-K |
| | | PD78X-000G00X0-000000-U2-0-K |
| | | PD78X-000G00X0-M00000-U2-0-K |
| | | PD78X-000000X0-000000-U3-0-K |
| | | PD78X-000G00X0-000000-U3-0-K |
| | | PD78X-000G00X0-M00000-U3-0-K |
| | | PD78X-000000X0-M00000-U3-0-K |
| | | HD785-00000000-000000-V1-0-B |
| | | HD785-000G0000-000000-V1-0-B |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | HD785-000G0000-M00000-V1-0-B |
| | | HD785-00000000-M00000-V1-0-B |
| | | HD785-00000000-000000-U1-0-F |
| | | HD785-000G0000-000000-U1-0-F |
| | | HD785-000G0000-M00000-U1-0-F |
| | | HD785-00000000-M00000-U1-0-F |
| | | HD785-00000000-000000-U1-0-H |
| | | HD785-000G0000-000000-U1-0-H |
| | | HD785-000G0000-M00000-U1-0-H |
| | | HD785-00000000-M00000-U1-0-H |
| | | HD785-00000000-000000-U2-0-K |
| | | HD785-00000000-M00000-U2-0-K |
| | | HD785-000G0000-000000-U2-0-K |
| | | HD785-000G0000-M00000-U2-0-K |
| | | PD70X-000000X0-000000-V1-0-A |
| | | PD70X-000G00X0-000000-V1-0-A |
| | | PD70X-000G00X0-M00000-V1-0-A |
| | | PD70X-000000X0-M00000-V1-0-A |
| | | PD70X-000000X0-000000-V1-0-B |
| | | PD70X-000G00X0-000000-V1-0-B |
| | | PD70X-000G00X0-M00000-V1-0-B |
| | | PD70X-000000X0-M00000-V1-0-B |
| | | PD70X-000000X0-000000-U1-0-F |
| | | PD70X-000G00X0-000000-U1-0-F |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD70X-000G00X0-M00000-U1-0-F |
| | | PD70X-000000X0-M00000-U1-0-F |
| | | PD70X-000000X0-000000-U1-0-H |
| | | PD70X-000G00X0-000000-U1-0-H |
| | | PD70X-000G00X0-M00000-U1-0-H |
| | | PD70X-000000X0-M00000-U1-0-H |
| | | PD70X-000000X0-000000-U1-0-K |
| | | PD70X-000G00X0-000000-U1-0-K |
| | | PD70X-000G00X0-M00000-U1-0-K |
| | | PD70X-000000X0-M00000-U1-0-K |
| | | PD70X-000000X0-000000-U2-0-K |
| | | PD70X-000000X0-M00000-U2-0-K |
| | | PD70X-000G00X0-000000-U2-0-K |
| | | PD70X-000G00X0-M00000-U2-0-K |
| | | PD70X-000000X0-000000-U3-0-K |
| | | PD70X-000G00X0-000000-U3-0-K |
| | | PD70X-000G00X0-M00000-U3-0-K |
| | | PD70X-000000X0-M00000-U3-0-K |
| | | HD705-00000000-000000-V1-0-B |
| | | HD705-000G0000-000000-V1-0-B |
| | | HD705-000G0000-M00000-V1-0-B |
| | | HD705-00000000-M00000-V1-0-B |
| | | HD705-00000000-000000-U1-0-F |
| | | HD705-000G0000-000000-U1-0-F |

| Subscriber | Firmware Version | Model Number |
|----------------------|--|------------------------------|
| | | HD705-000G0000-M00000-U1-0-F |
| | | HD705-00000000-M00000-U1-0-F |
| | | HD705-00000000-000000-U1-0-H |
| | | HD705-000G0000-000000-U1-0-H |
| | | HD705-000G0000-M00000-U1-0-H |
| | | HD705-00000000-M00000-U1-0-H |
| | | HD705-00000000-000000-U2-0-K |
| | | HD705-000G0000-000000-U2-0-K |
| | | HD705-000G0000-M00000-U2-0-K |
| | | HD705-00000000-M00000-U2-0-K |
| | A5.01.05.004 | PD78X-000G00X0-000000-V1-0-B |
| | S5.01.05.004 | PD78X-000000X0-000000-V1-0-B |
| | A5.05.01.001 | PD785-000G0000-M00000-U1-0-F |
| | | PD785-000G0000-M00000-U1-0-H |
| | | PD785-000G0000-000000-V1-0-B |
| | | PD705-000G0000-000000-V1-0-B |
| Covert Subscriber | A5.00.15.001 S5.00.15.001 A5.01.05.002 S5.01.05.002 A5.01.05.004 S5.01.05.004 | X1e0X-000G00X0-MB0000-U1-0-D |
| | | X1e0X-000G00X0-MB0000-V1-0-F |
| | | X1e0X-000G00X0-MB0000-U2-0-D |
| | | X1e0X-000G00X0-MB0000-U3-0-D |
| | | X1p0X-000G00X0-MB0000-U1-0-B |
| | | X1p0X-000G00X0-MB0000-U3-0-B |
| | | X1p0X-000G00X0-MB0000-V1-0-A |
| | | |

| Subscriber | Firmware Version | Model Number |
|----------------------------------|------------------------------|------------------------------|
| Intrinsically-safe Subscriber | A5.00.15.001 S5.00.15.001 | PD78X-0E0000X0-M00000-U1-0-H |
| | | PD780-0E0G00P0-M00000-U1-0-H |
| | | D788-0E0G0000-M00000-U1-0-H |
| | | PD780-0E0000P0-M00000-V1-0-B |
| | | PD780-0E0G00P0-M00000-V1-0-B |
| | | PD788-0E000000-M00000-V1-0-B |
| | | PD788-0E0G0000-M00000-V1-0-B |
| | | PD700-0E0000P0-M00000-U1-0-H |
| | | PD700-0E0G00P0-M00000-U1-0-H |
| | | PD708-0E000000-M00000-U1-0-H |
| | | PD708-0E0G0000-M00000-U1-0-H |
| | | PD700-0E0000P0-M00000-U3-0-K |
| | | PD700-0E0G00P0-M00000-U3-0-K |
| | | PD700-0E0000P0-M00000-V1-0-B |
| | | PD700-0E0G00P0-M00000-V1-0-B |
| | | PD708-0E000000-M00000-V1-0-B |
| | | PD708-0E0G0000-M00000-V1-0-B |
| | | PD79X-0E0000X0-M00000-U1-0-D |
| | | PD79X-0E0G00X0-M00000-U1-0-D |
| | | PD790-0E0000P0-M00000-V1-0-A |
| | | PD790-0E0G00P0-M00000-V1-0-A |

| Subscriber | Firmware Version | Model Number |
|----------------------|------------------------------|------------------------------|
| Mobile Subscriber | A4.05.16.003 S4.05.16.003 | MD78X-000000X0-000000-V1-L-C |
| | | MD78X-000000X0-000000-V1-H-C |
| | | MD78X-000G00X0-000000-V1-L-C |
| | | MD78X-000G00X0-000000-V1-H-C |
| | | MD78X-000000X0-000000-V1-L-D |
| | | MD78X-000000X0-000000-V1-H-D |
| | | MD78X-000G00X0-000000-V1-L-D |
| | | MD78X-000G00X0-000000-V1-H-D |
| | | MD78X-000R00X0-000000-V1-L-D |
| | | MD78X-000R00X0-000000-V1-H-D |
| | | MD78X-000000X0-000000-U1-L-D |
| | | MD78X-000000X0-000000-U1-H-D |
| | | MD78X-000G00X0-000000-U1-H-D |
| | | MD78X-000G00X0-000000-U1-L-D |
| | | MD78X-000000X0-000000-U1-L-H |
| | | MD78X-000000X0-000000-U1-H-H |
| | | MD78X-000G00X0-000000-U1-H-H |
| | | MD78X-000G00X0-000000-U1-L-H |
| | | MD78X-000R00X0-000000-U1-L-H |
| | | MD78X-000R00X0-000000-U1-H-H |
| | | MD78X-000000X0-000000-U1-L-F |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | MD78X-000000X0-000000-U1-H-F |
| | | MD780-000G00X0-000000-U1-H-F |
| | | MD78X-000G00X0-000000-U1-L-F |
| | | MD78X-000G00X0-000000-U3-L-F |
| | | MD78X-000000X0-000000-U3-L-F |
| | | MD78X-000G00X0-000000-U3-H-H |
| | | MD78X-000000X0-000000-U3-H-H |
| | | MD78X-000G00X0-000000-U3-L-H |
| | | MD78X-000000X0-000000-U3-L-H |
| | | MD780-000000X0-000000-U2-H-F |
| | | MD78X-000000X0-000000-U2-L-F |
| | | MD78X-000G00X0-000000-U2-H-F |
| | | MD78X-000G00X0-000000-U2-L-F |
| | | MD78X-000000X0-000000-U2-H-H |
| | | MD78X-000000X0-000000-U2-L-H |
| | | MD78X-000G00X0-000000-U2-H-H |
| | | MD78X-000G00X0-000000-U2-L-H |
| | | MD78X-000000X0-000000-U5-H-F |
| | | MD78X-000000X0-000000-U5-L-F |
| | | MD78X-000G00X0-000000-U5-H-F |
| | | MD78X-000G00X0-000000-U5-L-F |

| Subscriber | Firmware Version | Model Number |
|----------------------|------------------------------|------------------------------|
| | A5.05.01.001 | MD785-00000000-000000-U1-L-F |
| | | MD785-000G0000-000000-U1-L-F |
| | | MD785-00000000-000000-V1-L-C |
| | | MD785-000G0000-000000-V1-L-C |
| Mobile Subscriber | A5.01.05.004 S5.01.05.004 | MD78X-000000X0-000000-U1-H-D |
| | | MD78X-000000X0-000000-U1-L-D |
| | | MD78X-000G00X0-000000-U1-H-D |
| | | MD78X-000G00X0-000000-U1-L-D |
| | | MD78X-000000X0-000000-U1-H-F |
| | | MD78X-000000X0-000000-U1-L-F |
| | | MD78X-000G00X0-000000-U1-H-F |
| | | MD78X-000G00X0-000000-U1-L-F |
| | | MD78X-000000X0-000000-U1-H-H |
| | | MD78X-000000X0-000000-U1-L-H |
| | | MD78X-000G00X0-000000-U1-H-H |
| | | MD78X-000G00X0-000000-U1-L-H |
| | | MD78X-000R00X0-000000-U1-L-H |
| | | MD78X-000R00X0-000000-U1-H-H |
| | | MD78X-000000X0-000000-V1-H-C |
| | | MD78X-000000X0-000000-V1-L-C |
| | | MD78X-000G00X0-000000-V1-H-C |
| | | MD78X-000G00X0-000000-V1-L-C |
| | | MD78X-000000X0-000000-V1-H-D |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | MD78X-000000X0-000000-V1-L-D |
| | | MD78X-000G00X0-000000-V1-H-D |
| | | MD78X-000G00X0-000000-V1-L-D |
| | | MD78X-000R00X0-000000-V1-L-D |
| | | MD78X-000R00X0-000000-V1-H-D |
| | | MD78X-000000X0-000000-U3-L-F |
| | | MD78X-000G00X0-000000-U3-L-F |
| | | MD78X-000000X0-000000-U3-L-H |
| | | MD78X-000G00X0-000000-U3-L-H |
| | | MD78X-000000X0-000000-U3-H-H |
| | | MD78X-000G00X0-000000-U3-H-H |
| | | MD78X-000000X0-000000-U2-H-F |
| | | MD78X-000G00X0-000000-U2-H-F |
| | | MD78X-000000X0-000000-U2-L-F |
| | | MD78X-000G00X0-000000-U2-L-F |
| | | MD78X-000000X0-000000-U2-H-H |
| | | MD78X-000G00X0-000000-U2-H-H |
| | | MD78X-000000X0-000000-U2-L-H |
| | | MD78X-000G00X0-000000-U2-L-H |

R4.5&R5.0 Models

| Subscriber | Firmware Version | Model Number |
|------------------------|------------------|------------------------------|
| Portable Subscriber | A4.05.16.003 | PD78X-000000P0-000000-V1-0-A |
| | S4.05.16.003 | PD78X-000G00P0-000000-V1-0-A |
| | | PD78X-000G00P0-M00000-V1-0-A |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD78X-000000P0-M00000-V1-0-A |
| | | PD78X-00000000-000000-V1-0-A |
| | | PD78X-000G0000-000000-V1-0-A |
| | | PD78X-000G0000-M00000-V1-0-A |
| | | PD78X-00000000-M00000-V1-0-A |
| | | PD78X-000000P0-000000-V1-0-B |
| | | PD78X-000G00P0-000000-V1-0-B |
| | | PD78X-000G00P0-M00000-V1-0-B |
| | | PD78X-000000P0-M00000-V1-0-B |
| | | PD78X-00000000-000000-V1-0-B |
| | | PD78X-000G0000-000000-V1-0-B |
| | | PD78X-000G0000-M00000-V1-0-B |
| | | PD78X-00000000-M00000-V1-0-B |
| | | PD78X-000000P0-000000-U1-0-F |
| | | PD78X-000G00P0-000000-U1-0-F |
| | | PD78X-000G00P0-M00000-U1-0-F |
| | | PD78X-000000P0-M00000-U1-0-F |
| | | PD78X-00000000-000000-U1-0-F |
| | | PD78X-000G0000-000000-U1-0-F |
| | | PD78X-000G0000-M00000-U1-0-F |
| | | PD78X-00000000-M00000-U1-0-F |
| | | PD78X-000000P0-000000-U1-0-H |
| | | PD78X-000G00P0-000000-U1-0-H |
| | | PD78X-000G00P0-M00000-U1-0-H |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD78X-000000P0-M00000-U1-0-H |
| | | PD78X-00000000-000000-U1-0-H |
| | | PD78X-000G0000-000000-U1-0-H |
| | | PD78X-000G0000-M00000-U1-0-H |
| | | PD78X-00000000-M00000-U1-0-H |
| | | PD78X-000000P0-000000-U1-0-K |
| | | PD78X-000G00P0-000000-U1-0-K |
| | | PD78X-000G00P0-M00000-U1-0-K |
| | | PD78X-000000P0-M00000-U1-0-K |
| | | PD78X-00000000-000000-U1-0-K |
| | | PD78X-000G0000-000000-U1-0-K |
| | | PD78X-000G0000-M00000-U1-0-K |
| | | PD78X-00000000-M00000-U1-0-K |
| | | PD78X-000000P0-000000-U2-0-K |
| | | PD78X-000000P0-M00000-U2-0-K |
| | | PD78X-000G00P0-000000-U2-0-K |
| | | PD78X-000G00P0-M00000-U2-0-K |
| | | PD78X-00000000-000000-U2-0-K |
| | | PD78X-00000000-M00000-U2-0-K |
| | | PD78X-000G0000-000000-U2-0-K |
| | | PD78X-000G0000-M00000-U2-0-K |
| | | PD78X-000000P0-000000-U3-0-K |
| | | PD78X-000G00P0-000000-U3-0-K |
| | | PD78X-000G00P0-M00000-U3-0-K |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD78X-000000P0-M00000-U3-0-K |
| | | PD78X-00000000-000000-U3-0-K |
| | | PD78X-000G0000-000000-U3-0-K |
| | | PD78X-000G0000-M00000-U3-0-K |
| | | PD78X-00000000-M00000-U3-0-K |
| | | HD785-00000000-000000-V1-0-B |
| | | HD785-000G0000-000000-V1-0-B |
| | | HD785-000G0000-M00000-V1-0-B |
| | | HD785-00000000-M00000-V1-0-B |
| | | HD785-00000000-000000-U1-0-F |
| | | HD785-000G0000-000000-U1-0-F |
| | | HD785-000G0000-M00000-U1-0-F |
| | | HD785-00000000-M00000-U1-0-F |
| | | HD785-00000000-000000-U1-0-H |
| | | HD785-000G0000-000000-U1-0-H |
| | | HD785-000G0000-M00000-U1-0-H |
| | | HD785-00000000-M00000-U1-0-H |
| | | HD785-00000000-000000-U2-0-K |
| | | HD785-00000000-M00000-U2-0-K |
| | | HD785-000G0000-000000-U2-0-K |
| | | HD785-000G0000-M00000-U2-0-K |
| | | PD70X-000000P0-000000-V1-0-A |
| | | PD70X-000G00P0-000000-V1-0-A |
| | | PD70X-000G00P0-M00000-V1-0-A |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD70X-000000P0-M00000-V1-0-A |
| | | PD70X-00000000-000000-V1-0-A |
| | | PD70X-000G0000-000000-V1-0-A |
| | | PD70X-000G0000-M00000-V1-0-A |
| | | PD70X-00000000-M00000-V1-0-A |
| | | PD70X-000000P0-000000-V1-0-B |
| | | PD70X-000G00P0-000000-V1-0-B |
| | | PD70X-000G00P0-M00000-V1-0-B |
| | | PD70X-000000P0-M00000-V1-0-B |
| | | PD70X-00000000-000000-V1-0-B |
| | | PD70X-000G0000-000000-V1-0-B |
| | | PD70X-000G0000-M00000-V1-0-B |
| | | PD70X-00000000-M00000-V1-0-B |
| | | PD70X-000000P0-000000-U1-0-F |
| | | PD70X-000G00P0-000000-U1-0-F |
| | | PD70X-000G00P0-M00000-U1-0-F |
| | | PD70X-000000P0-M00000-U1-0-F |
| | | PD70X-00000000-000000-U1-0-F |
| | | PD70X-000G0000-000000-U1-0-F |
| | | PD70X-000G0000-M00000-U1-0-F |
| | | PD70X-00000000-M00000-U1-0-F |
| | | PD70X-000000P0-000000-U1-0-H |
| | | PD70X-000G00P0-000000-U1-0-H |
| | | PD70X-000G00P0-M00000-U1-0-H |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD70X-000000P0-M00000-U1-0-H |
| | | PD70X-00000000-000000-U1-0-H |
| | | PD70X-000G0000-000000-U1-0-H |
| | | PD70X-000G0000-M00000-U1-0-H |
| | | PD70X-00000000-M00000-U1-0-H |
| | | PD70X-000000P0-000000-U1-0-K |
| | | PD70X-000G00P0-000000-U1-0-K |
| | | PD70X-000G00P0-M00000-U1-0-K |
| | | PD70X-000000P0-M00000-U1-0-K |
| | | PD70X-00000000-000000-U1-0-K |
| | | PD70X-000G0000-000000-U1-0-K |
| | | PD70X-000G0000-M00000-U1-0-K |
| | | PD70X-00000000-M00000-U1-0-K |
| | | PD70X-000000P0-000000-U2-0-K |
| | | PD70X-000000P0-M00000-U2-0-K |
| | | PD70X-000G00P0-000000-U2-0-K |
| | | PD70X-000G00P0-M00000-U2-0-K |
| | | PD70X-00000000-000000-U2-0-K |
| | | PD70X-00000000-M00000-U2-0-K |
| | | PD70X-000G0000-000000-U2-0-K |
| | | PD70X-000G0000-M00000-U2-0-K |
| | | PD70X-000000P0-000000-U3-0-K |
| | | PD70X-000G00P0-000000-U3-0-K |
| | | PD70X-000G00P0-M00000-U3-0-K |

| Subscriber | Firmware Version | Model Number |
|----------------------|------------------|------------------------------|
| | | PD70X-000000P0-M00000-U3-0-K |
| | | PD70X-00000000-000000-U3-0-K |
| | | PD70X-000G0000-000000-U3-0-K |
| | | PD70X-000G0000-M00000-U3-0-K |
| | | PD70X-00000000-M00000-U3-0-K |
| | | HD705-00000000-000000-V1-0-B |
| | | HD705-000G0000-000000-V1-0-B |
| | | HD705-000G0000-M00000-V1-0-B |
| | | HD705-00000000-M00000-V1-0-B |
| | | HD705-00000000-000000-U1-0-F |
| | | HD705-000G0000-000000-U1-0-F |
| | | HD705-000G0000-M00000-U1-0-F |
| | | HD705-00000000-M00000-U1-0-F |
| | | HD705-00000000-000000-U1-0-H |
| | | HD705-000G0000-000000-U1-0-H |
| | | HD705-000G0000-M00000-U1-0-H |
| | | HD705-00000000-M00000-U1-0-H |
| | | HD705-00000000-000000-U2-0-K |
| | | HD705-000G0000-000000-U2-0-K |
| | | HD705-000G0000-M00000-U2-0-K |
| | | HD705-00000000-M00000-U2-0-K |
| Covert Subscriber | A4.05.16.003 | X1e0X-000G00P0-MB0000-U1-0-D |
| | S4.05.16.003 | X1e0X-000G00P0-MB0000-V1-0-F |
| | | X1e0X-000G00P0-MB0000-U3-0-D |

| Subscriber | Firmware Version | Model Number |
|----------------------------------|------------------------------|------------------------------|
| | | X1e0X-000G0000-MB0000-U1-0-D |
| | | X1e0X-000G0000-MB0000-V1-0-F |
| | | X1e0X-000G0000-MB0000-U3-0-D |
| | A5.00.09.000 | X1e02-000G0000-MB0000-U2-0-D |
| Intrinsically-safe Subscriber | A4.05.16.003 S4.05.16.003 | PD78X-0E0000P0-M00000-U1-0-H |
| | | PD78X-0E000000-M00000-U1-0-H |
| | | PD780-0E0G00P0-M00000-U1-0-H |
| | | PD780-0E0000P0-M00000-V1-0-B |
| | | PD780-0E0G00P0-M00000-V1-0-B |
| | | PD780-0E0000P0-M00000-U3-0-K |
| | | PD780-0E0G00P0-M00000-U3-0-K |
| | | PD700-0E0000P0-M00000-U1-0-H |
| | | PD700-0E0G00P0-M00000-U1-0-H |
| | | PD700-0E0000P0-M00000-U3-0-K |
| | | PD700-0E0G00P0-M00000-U3-0-K |
| | | PD700-0E0000P0-M00000-V1-0-B |
| | | PD700-0E0G00P0-M00000-V1-0-B |
| | | PD790-0E0000P0-M00000-U1-0-D |
| | | PD79X-0E0G00P0-M00000-U1-0-D |
| | | PD79X-0E0G0000-M00000-U1-0-D |
| | | PD790-0E0000P0-M00000-V1-0-A |
| | | PD790-0E0G00P0-M00000-V1-0-A |
| Mobile Subscriber | A4.05.16.003 | MD78X-000000P0-000000-V1-L-C |
| | S4.05.16.003 | MD78X-000000P0-000000-V1-H-C |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | MD78X-000G00P0-000000-V1-L-C |
| | | MD78X-000G00P0-000000-V1-H-C |
| | | MD78X-00000000-000000-V1-L-C |
| | | MD78X-00000000-000000-V1-H-C |
| | | MD78X-000G0000-000000-V1-L-C |
| | | MD78X-000G0000-000000-V1-H-C |
| | | MD78X-000000P0-000000-V1-L-D |
| | | MD78X-000000P0-000000-V1-H-D |
| | | MD78X-000G00P0-000000-V1-L-D |
| | | MD78X-000G00P0-000000-V1-H-D |
| | | MD78X-00000000-000000-V1-L-D |
| | | MD78X-00000000-000000-V1-H-D |
| | | MD78X-000G0000-000000-V1-L-D |
| | | MD78X-000G0000-000000-V1-H-D |
| | | MD78X-000000P0-000000-U1-L-D |
| | | MD78X-000000P0-000000-U1-H-D |
| | | MD78X-000G00P0-000000-U1-H-D |
| | | MD78X-000G00P0-000000-U1-L-D |
| | | MD78X-00000000-000000-U1-L-D |
| | | MD78X-00000000-000000-U1-H-D |
| | | MD78X-000G0000-000000-U1-H-D |
| | | MD78X-000G0000-000000-U1-L-D |
| | | MD78X-000000P0-000000-U1-L-H |
| | | MD78X-000000P0-000000-U1-H-H |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | MD78X-000G00P0-000000-U1-H-H |
| | | MD78X-000G00P0-000000-U1-L-H |
| | | MD78X-00000000-000000-U1-L-H |
| | | MD78X-00000000-000000-U1-H-H |
| | | MD78X-000G0000-000000-U1-H-H |
| | | MD78X-000G0000-000000-U1-L-H |
| | | MD78X-000000P0-000000-U1-L-F |
| | | MD78X-000000P0-000000-U1-H-F |
| | | MD780-000G00P0-000000-U1-H-F |
| | | MD78X-000G00P0-000000-U1-L-F |
| | | MD78X-00000000-000000-U1-L-F |
| | | MD78X-00000000-000000-U1-H-F |
| | | MD78X-000G0000-000000-U1-H-F |
| | | MD78X-000G0000-000000-U1-L-F |
| | | MD78X-000G00P0-000000-U3-L-F |
| | | MD78X-000000P0-000000-U3-L-F |
| | | MD78X-000G0000-000000-U3-L-F |
| | | MD78X-00000000-000000-U3-L-F |
| | | MD78X-000G00P0-000000-U3-H-H |
| | | MD78X-000000P0-000000-U3-H-H |
| | | MD78X-000G00P0-000000-U3-L-H |
| | | MD78X-000000P0-000000-U3-L-H |
| | | MD78X-000G0000-000000-U3-H-H |
| | | MD78X-00000000-000000-U3-H-H |

| Subscriber | Firmware Version | Model Number |
|----------------------|------------------------------|------------------------------|
| | | MD78X-000G0000-000000-U3-L-H |
| | | MD78X-00000000-000000-U3-L-H |
| | | MD780-000000P0-000000-U2-H-F |
| | | MD78X-000000P0-000000-U2-L-F |
| | | MD78X-000G00P0-000000-U2-H-F |
| | | MD78X-000G00P0-000000-U2-L-F |
| | | MD78X-00000000-000000-U2-H-F |
| | | MD78X-00000000-000000-U2-L-F |
| | | MD78X-000G0000-000000-U2-H-F |
| | | MD78X-000G0000-000000-U2-L-F |
| | | MD780-000000P0-000000-U2-H-H |
| | | MD78X-000000P0-000000-U2-L-H |
| | | MD78X-000G00P0-000000-U2-H-H |
| | | MD78X-000G00P0-000000-U2-L-H |
| | | MD78X-00000000-000000-U2-H-H |
| | | MD78X-00000000-000000-U2-L-H |
| | | MD78X-000G0000-000000-U2-H-H |
| | | MD78X-000G0000-000000-U2-L-H |
| Mobile Subscriber | A4.05.16.102 S4.05.16.102 | MD78X-000000P0-000000-U1-H-D |
| | | MD78X-000000P0-000000-U1-L-D |
| | | MD78X-000G00P0-000000-U1-H-D |
| | | MD78X-000G00P0-000000-U1-L-D |
| | | MD78X-000000P0-000000-U1-H-F |
| | | MD78X-000000P0-000000-U1-L-F |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | MD78X-000G00P0-000000-U1-H-F |
| | | MD78X-000G00P0-000000-U1-L-F |
| | | MD78X-000000P0-000000-U1-H-H |
| | | MD78X-000000P0-000000-U1-L-H |
| | | MD78X-000G00P0-000000-U1-H-H |
| | | MD78X-000G00P0-000000-U1-L-H |
| | | MD78X-000000P0-000000-V1-H-C |
| | | MD78X-000000P0-000000-V1-L-C |
| | | MD78X-000G00P0-000000-V1-H-C |
| | | MD78X-000G00P0-000000-V1-L-C |
| | | MD78X-000000P0-000000-V1-H-D |
| | | MD78X-000000P0-000000-V1-L-D |
| | | MD78X-000G00P0-000000-V1-H-D |
| | | MD78X-000G00P0-000000-V1-L-D |
| | | MD78X-000000P0-000000-U3-L-F |
| | | MD78X-000G00P0-000000-U3-L-F |
| | | MD78X-000000P0-000000-U3-L-H |
| | | MD78X-000G00P0-000000-U3-L-H |
| | | MD78X-000000P0-000000-U3-H-H |
| | | MD78X-000G00P0-000000-U3-H-H |
| | | MD78X-000000P0-000000-U2-H-F |
| | | MD78X-000G00P0-000000-U2-H-F |
| | | MD78X-000000P0-000000-U2-L-F |
| | | MD78X-000G00P0-000000-U2-L-F |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | MD78X-000000P0-000000-U2-H-H |
| | | MD78X-000G00P0-000000-U2-H-H |
| | | MD78X-000000P0-000000-U2-L-H |
| | | MD78X-000G00P0-000000-U2-L-H |
| | | |
| | | MD78X-00000000-000000-U1-H-D |
| | | MD78X-00000000-000000-U1-L-D |
| | | MD78X-000G0000-000000-U1-H-D |
| | | MD78X-000G0000-000000-U1-L-D |
| | | MD78X-00000000-000000-U1-H-F |
| | | MD78X-00000000-000000-U1-L-F |
| | | MD78X-000G0000-000000-U1-H-F |
| | | MD78X-000G0000-000000-U1-L-F |
| | | MD78X-00000000-000000-U1-H-H |
| | | MD78X-00000000-000000-U1-L-H |
| | | MD78X-000G0000-000000-U1-H-H |
| | | MD78X-000G0000-000000-U1-L-H |
| | | MD78X-00000000-000000-V1-H-C |
| | | MD78X-00000000-000000-V1-L-C |
| | | MD78X-000G0000-000000-V1-H-C |
| | | MD78X-000G0000-000000-V1-L-C |
| | | MD78X-00000000-000000-V1-H-D |
| | | MD78X-00000000-000000-V1-L-D |
| | | MD78X-000G0000-000000-V1-H-D |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | MD78X-000G0000-000000-V1-L-D |
| | | MD78X-00000000-000000-U3-L-F |
| | | MD78X-000G0000-000000-U3-L-F |
| | | MD78X-00000000-000000-U3-L-H |
| | | MD78X-000G0000-000000-U3-L-H |
| | | MD78X-00000000-000000-U3-H-H |
| | | MD78X-000G0000-000000-U3-H-H |
| | | MD78X-00000000-000000-U2-H-F |
| | | MD78X-000G0000-000000-U2-H-F |
| | | MD78X-00000000-000000-U2-L-F |
| | | MD78X-000G0000-000000-U2-L-F |
| | | MD78X-00000000-000000-U2-H-H |
| | | MD78X-000G0000-000000-U2-H-H |
| | | MD78X-00000000-000000-U2-L-H |
| | | MD78X-000G0000-000000-U2-L-H |

R4.0&R4.1&R4.5 Models

| Subscriber | Firmware Version | Model Number |
|------------------------|------------------|------------------------------|
| Portable Subscriber | A4.00.10.001 | PD78X-00000000-000000-V1-0-A |
| | | PD78X-000G0000-000000-V1-0-A |
| | S4.00.10.001 | PD78X-000G0000-M00000-V1-0-A |
| | | PD78X-00000000-M00000-V1-0-A |
| | A4.05.16.002 | PD780-000000P0-000000-V1-0-A |
| | | PD780-000G00P0-000000-V1-0-A |
| | S4.05.16.002 | PD780-000G00P0-M00000-V1-0-A |
| | | PD780-000G00P0-M00000-V1-0-A |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD780-000000P0-M00000-V1-0-A |
| | | PD78X-00000000-000000-V1-0-B |
| | | PD78X-000G0000-000000-V1-0-B |
| | | PD78X-000G0000-M00000-V1-0-B |
| | | PD78X-00000000-M00000-V1-0-B |
| | | PD780-000000P0-000000-V1-0-B |
| | | PD780-000G00P0-000000-V1-0-B |
| | | PD780-000G00P0-M00000-V1-0-B |
| | | PD780-000000P0-M00000-V1-0-B |
| | | PD78X-00000000-000000-U1-0-F |
| | | PD78X-000G0000-000000-U1-0-F |
| | | PD78X-000G0000-M00000-U1-0-F |
| | | PD78X-00000000-M00000-U1-0-F |
| | | PD780-000000P0-000000-U1-0-F |
| | | PD780-000G00P0-000000-U1-0-F |
| | | PD780-000G00P0-M00000-U1-0-F |
| | | PD780-000000P0-M00000-U1-0-F |
| | | PD78X-00000000-000000-U1-0-H |
| | | PD78X-000G0000-000000-U1-0-H |
| | | PD78X-000G0000-M00000-U1-0-H |
| | | PD78X-00000000-M00000-U1-0-H |
| | | PD780-000000P0-000000-U1-0-H |
| | | PD780-000G00P0-000000-U1-0-H |
| | | PD780-000G00P0-M00000-U1-0-H |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD780-000000P0-M00000-U1-0-H |
| | | PD78X-00000000-000000-U1-0-K |
| | | PD78X-000G0000-000000-U1-0-K |
| | | PD78X-000G0000-M00000-U1-0-K |
| | | PD78X-00000000-M00000-U1-0-K |
| | | PD780-000000P0-000000-U1-0-K |
| | | PD780-000G00P0-000000-U1-0-K |
| | | PD780-000G00P0-M00000-U1-0-K |
| | | PD780-000000P0-M00000-U1-0-K |
| | | PD78X-00000000-000000-U2-0-K |
| | | PD78X-000G0000-000000-U2-0-K |
| | | PD78X-000G0000-M00000-U2-0-K |
| | | PD78X-00000000-M00000-U2-0-K |
| | | PD780-000000P0-000000-U2-0-K |
| | | PD780-000G00P0-000000-U2-0-K |
| | | PD780-000G00P0-M00000-U2-0-K |
| | | PD780-000000P0-M00000-U2-0-K |
| | | PD78X-00000000-000000-U3-0-K |
| | | PD78X-000G0000-000000-U3-0-K |
| | | PD78X-000G0000-M00000-U3-0-K |
| | | PD78X-00000000-M00000-U3-0-K |
| | | PD780-000000P0-000000-U3-0-K |
| | | PD780-000G00P0-000000-U3-0-K |
| | | PD780-000G00P0-M00000-U3-0-K |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD780-000000P0-M00000-U3-0-K |
| | | HD785-00000000-000000-V1-0-B |
| | | HD785-000G0000-000000-V1-0-B |
| | | HD785-000G0000-M00000-V1-0-B |
| | | HD785-00000000-M00000-V1-0-B |
| | | HD785-00000000-000000-U1-0-F |
| | | HD785-000G0000-000000-U1-0-F |
| | | HD785-000G0000-M00000-U1-0-F |
| | | HD785-00000000-M00000-U1-0-F |
| | | HD785-00000000-000000-U1-0-H |
| | | HD785-000G0000-000000-U1-0-H |
| | | HD785-000G0000-M00000-U1-0-F |
| | | HD785-00000000-M00000-U1-0-H |
| | | HD785-00000000-000000-U2-0-K |
| | | HD785-000G0000-000000-U2-0-K |
| | | HD785-000G0000-M00000-U2-0-K |
| | | HD785-00000000-M00000-U2-0-K |
| | | PD70X-00000000-000000-V1-0-A |
| | | PD70X-000G0000-000000-V1-0-A |
| | | PD70X-000G0000-M00000-V1-0-A |
| | | PD70X-00000000-M00000-V1-0-A |
| | | PD700-000000P0-000000-V1-0-A |
| | | PD700-000G00P0-000000-V1-0-A |
| | | PD700-000G00P0-M00000-V1-0-A |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD700-000000P0-M00000-V1-0-A |
| | | PD70X-00000000-000000-V1-0-B |
| | | PD70X-000G0000-000000-V1-0-B |
| | | PD70X-000G0000-M00000-V1-0-B |
| | | PD70X-00000000-M00000-V1-0-B |
| | | PD700-000000P0-000000-V1-0-B |
| | | PD700-000G00P0-000000-V1-0-B |
| | | PD700-000G00P0-M00000-V1-0-B |
| | | PD700-000000P0-M00000-V1-0-B |
| | | PD70X-00000000-000000-U1-0-F |
| | | PD70X-000G0000-000000-U1-0-F |
| | | PD70X-000G0000-M00000-U1-0-F |
| | | PD70X-00000000-M00000-U1-0-F |
| | | PD700-000000P0-000000-U1-0-F |
| | | PD700-000G00P0-000000-U1-0-F |
| | | PD700-000G00P0-M00000-U1-0-F |
| | | PD700-000000P0-M00000-U1-0-F |
| | | PD70X-00000000-000000-U1-0-H |
| | | PD70X-000G0000-000000-U1-0-H |
| | | PD70X-000G0000-M00000-U1-0-H |
| | | PD70X-00000000-M00000-U1-0-H |
| | | PD700-000000P0-000000-U1-0-H |
| | | PD700-000G00P0-000000-U1-0-H |
| | | PD700-000G00P0-M00000-U1-0-H |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD700-000000P0-M00000-U1-0-H |
| | | PD70X-00000000-000000-U1-0-K |
| | | PD70X-000G0000-000000-U1-0-K |
| | | PD70X-000G0000-M00000-U1-0-K |
| | | PD70X-00000000-M00000-U1-0-K |
| | | PD700-000000P0-000000-U1-0-K |
| | | PD700-000G00P0-000000-U1-0-K |
| | | PD700-000G00P0-M00000-U1-0-K |
| | | PD700-000000P0-M00000-U1-0-K |
| | | PD70X-00000000-000000-U2-0-K |
| | | PD70X-000G0000-000000-U2-0-K |
| | | PD70X-000G0000-M00000-U2-0-K |
| | | PD70X-00000000-M00000-U2-0-K |
| | | PD700-000000P0-000000-U2-0-K |
| | | PD700-000G00P0-000000-U2-0-K |
| | | PD700-000G00P0-M00000-U2-0-K |
| | | PD700-000000P0-M00000-U2-0-K |
| | | PD70X-00000000-000000-U3-0-K |
| | | PD70X-000G0000-000000-U3-0-K |
| | | PD70X-000G0000-M00000-U3-0-K |
| | | PD70X-00000000-M00000-U3-0-K |
| | | PD700-000000P0-000000-U3-0-K |
| | | PD700-000G00P0-000000-U3-0-K |
| | | PD700-000G00P0-M00000-U3-0-K |

| Subscriber | Firmware Version | Model Number |
|-----------------------------------|------------------|------------------------------|
| | | PD700-000000P0-M00000-U3-0-K |
| | | HD705-00000000-000000-V1-0-B |
| | | HD705-000G0000-000000-V1-0-B |
| | | HD705-000G0000-M00000-V1-0-B |
| | | HD705-00000000-M00000-V1-0-B |
| | | HD705-00000000-000000-U1-0-F |
| | | HD705-000G0000-000000-U1-0-F |
| | | HD705-000G0000-M00000-U1-0-F |
| | | HD705-00000000-M00000-U1-0-F |
| | | HD705-00000000-000000-U1-0-H |
| | | HD705-000G0000-000000-U1-0-H |
| | | HD705-000G0000-M00000-U1-0-H |
| | | HD705-00000000-M00000-U1-0-H |
| | | PD705-00000000-000000-U2-0-K |
| | | PD705-000G0000-000000-U2-0-K |
| | | PD705-000G0000-M00000-U2-0-K |
| | | PD705-00000000-M00000-U2-0-K |
| Covert Subscriber | A4.01.05.001 | X1e0X-000G0000-MB0000-U1-0-B |
| | S4.01.05.001 | X1e0X-000G0000-MB0000-V1-0-D |
| | A4.01.05.002 | X1e00-000G00P0-MB0000-U1-0-B |
| | S4.01.05.002 | X1e00-000G00P0-MB0000-V1-0-D |
| | A4.05.16.002 | |
| | S4.05.16.002 | |
| Intrinsically-saf e Subscriber | A4.01.05.001 | PD790-0E0000P0-M00000-U1-0-D |
| | A4.05.16.002 | |

| Subscriber | Firmware Version | Model Number |
|----------------------|--|------------------------------|
| | S4.05.16.002 | |
| | A4.05.10.001 A4.05.16.002 S4.05.16.002 | PD780-0E0G00P0-M00000-V1-0-B |
| | | PD700-0E0G00P0-M00000-V1-0-B |
| | | PD780-0E0G00P0-M00000-U3-0-K |
| | | PD700-0E0G00P0-M00000-U3-0-K |
| | | PD780-0E0000P0-M00000-U1-0-H |
| | | PD700-0E0000P0-M00000-U1-0-H |
| Mobile Subscriber | A4.00.10.001 S4.00.10.001 A4.00.10.002 S4.00.10.002 A4.05.16.002 S4.05.16.002 | MD78X-00000000-000000-V1-L-C |
| | | MD78X-00000000-000000-V1-H-C |
| | | MD78X-000G0000-000000-V1-L-C |
| | | MD78X-000G0000-000000-V1-H-C |
| | | MD780-000000P0-000000-V1-L-C |
| | | MD780-000000P0-000000-V1-H-C |
| | | MD780-000G00P0-000000-V1-L-C |
| | | MD780-000G00P0-000000-V1-H-C |
| | | MD78X-00000000-000000-U1-L-D |
| | | MD78X-00000000-000000-U1-H-D |
| | | MD78X-000G0000-000000-U1-H-D |
| | | MD78X-000G0000-000000-U1-L-D |
| | | MD780-000000P0-000000-U1-L-D |
| | | MD780-000000P0-000000-U1-H-D |
| | | MD780-000G00P0-000000-U1-H-D |
| | | MD780-000G00P0-000000-U1-L-D |
| | | MD78X-00000000-000000-U1-L-F |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | MD78X-00000000-000000-U1-H-F |
| | | MD78X-000G0000-000000-U1-H-F |
| | | MD78X-000G0000-000000-U1-L-F |
| | | MD780-000000P0-000000-U1-L-F |
| | | MD780-000000P0-000000-U1-H-F |
| | | MD780-000G00P0-000000-U1-H-F |
| | | MD780-000G00P0-000000-U1-L-F |
| | | MD78X-00000000-000000-U2-L-F |
| | | MD78X-00000000-000000-U2-H-F |
| | | MD78X-000G0000-000000-U2-H-F |
| | | MD78X-000G0000-000000-U2-L-F |
| | | MD780-000000P0-000000-U2-L-F |
| | | MD780-000000P0-000000-U2-H-F |
| | | MD780-000G00P0-000000-U2-H-F |
| | | MD780-000G00P0-000000-U2-L-F |
| | | MD78X-000G0000-000000-U3-L-F |
| | | MD78X-00000000-000000-U3-L-F |
| | | MD78X-000G0000-000000-U3-H-H |
| | | MD78X-00000000-000000-U3-H-H |
| | | MD780-000G00P0-000000-U3-L-F |
| | | MD780-000000P0-000000-U3-L-F |
| | | MD780-000G00P0-000000-U3-H-H |
| | | MD780-000000P0-000000-U3-H-H |

R3.5&R3.7 Models

| Subscriber | Firmware Version | Model Number |
|------------------------|------------------|------------------------------|
| Portable Subscriber | A3.05.08.001 | PD782-00000000-000000-U2-0-K |
| | | PD782-00000000-M00000-U2-0-K |
| | | PD782-000G0000-000000-U2-0-K |
| | | PD782-000G0000-M00000-U2-0-K |
| | | PD702-00000000-000000-U2-0-K |
| | | PD702-00000000-M00000-U2-0-K |
| | | PD702-000G0000-000000-U2-0-K |
| | | PD702-000G0000-M00000-U2-0-K |
| | A3.05.09.000 | PD785-00000000-000000-U1-0-F |
| | | PD785-000G0000-000000-U1-0-F |
| | | PD785-000G0000-M00000-U1-0-F |
| | | PD785-00000000-M00000-U1-0-F |
| | | PD705-00000000-000000-U1-0-F |
| | | PD705-000G0000-000000-U1-0-F |
| | | PD705-000G0000-M00000-U1-0-F |
| | | PD705-00000000-M00000-U1-0-F |
| | A3.05.10.000 | PD702-000G0000-000000-U1-0-F |
| | | PD702-000G0000-000000-U1-0-H |
| | | PD702-000G0000-000000-U1-0-K |
| | | PD702-000G0000-M00000-U1-0-F |
| | | PD702-000G0000-M00000-U1-0-H |
| | | PD702-000G0000-M00000-U1-0-K |
| | | PD782-000G0000-000000-U1-0-F |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD782-000G0000-M00000-U1-0-F |
| | | PD782-000G0000-M00000-U1-0-H |
| | | PD782-000G0000-M00000-U1-0-K |
| | | PD705-00000000-000000-V1-0-B |
| | A3.05.10.001 | PD78X-00000000-000000-V1-0-A |
| | | PD78X-000G0000-000000-V1-0-A |
| | | PD78X-000G0000-M00000-V1-0-A |
| | | PD78X-00000000-M00000-V1-0-A |
| | | PD78X-00000000-000000-V1-0-B |
| | | PD78X-000G0000-000000-V1-0-B |
| | | PD78X-000G0000-M00000-V1-0-B |
| | | PD78X-00000000-M00000-V1-0-B |
| | | PD78X-00000000-000000-U1-0-F |
| | | PD78X-000G0000-000000-U1-0-F |
| | | PD78X-000G0000-M00000-U1-0-F |
| | | PD78X-00000000-M00000-U1-0-F |
| | | PD78X-00000000-000000-U1-0-H |
| | | PD78X-000G0000-000000-U1-0-H |
| | | PD78X-000G0000-M00000-U1-0-H |
| | | PD78X-00000000-M00000-U1-0-H |
| | | PD78X-00000000-000000-U1-0-K |
| | | PD78X-000G0000-000000-U1-0-K |
| | | PD78X-000G0000-M00000-U1-0-K |
| | | PD78X-00000000-M00000-U1-0-K |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD780-00000000-000000-U2-0-K |
| | | PD780-00000000-M00000-U2-0-K |
| | | PD780-000G0000-000000-U2-0-K |
| | | PD780-000G0000-M00000-U2-0-K |
| | | PD78X-00000000-000000-U3-0-K |
| | | PD78X-000G0000-000000-U3-0-K |
| | | PD78X-000G0000-M00000-U3-0-K |
| | | HD785-00000000-000000-V1-0-B |
| | | HD785-000G0000-000000-V1-0-B |
| | | HD785-000G0000-M00000-V1-0-B |
| | | HD785-00000000-M00000-V1-0-B |
| | | HD785-00000000-000000-U1-0-F |
| | | HD785-000G0000-000000-U1-0-F |
| | | HD785-000G0000-M00000-U1-0-F |
| | | HD785-00000000-M00000-U1-0-F |
| | | HD785-00000000-000000-U1-0-H |
| | | HD785-000G0000-000000-U1-0-H |
| | | HD785-000G0000-M00000-U1-0-H |
| | | HD785-00000000-M00000-U1-0-H |
| | | HD785-00000000-000000-U2-0-K |
| | | HD785-00000000-M00000-U2-0-K |
| | | HD785-000G0000-000000-U2-0-K |
| | | HD785-000G0000-M00000-U2-0-K |
| | | PD70X-00000000-000000-V1-0-A |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD70X-000G0000-000000-V1-0-A |
| | | PD70X-000G0000-M00000-V1-0-A |
| | | PD70X-00000000-M00000-V1-0-A |
| | | PD70X-00000000-000000-V1-0-B |
| | | PD70X-000G0000-000000-V1-0-B |
| | | PD70X-000G0000-M00000-V1-0-B |
| | | PD70X-00000000-M00000-V1-0-B |
| | | PD70X-00000000-000000-U1-0-F |
| | | PD70X-000G0000-000000-U1-0-F |
| | | PD70X-000G0000-M00000-U1-0-F |
| | | PD70X-00000000-M00000-U1-0-F |
| | | PD70X-00000000-000000-U1-0-H |
| | | PD70X-000G0000-000000-U1-0-H |
| | | PD70X-000G0000-M00000-U1-0-H |
| | | PD70X-00000000-M00000-U1-0-H |
| | | PD70X-00000000-000000-U1-0-K |
| | | PD70X-000G0000-000000-U1-0-K |
| | | PD70X-000G0000-M00000-U1-0-K |
| | | PD70X-00000000-M00000-U1-0-K |
| | | PD700-00000000-000000-U2-0-K |
| | | PD700-00000000-M00000-U2-0-K |
| | | PD700-000G0000-000000-U2-0-K |
| | | PD700-000G0000-M00000-U2-0-K |
| | | PD70X-00000000-000000-U3-0-K |

| Subscriber | Firmware Version | Model Number |
|----------------------|------------------|------------------------------|
| | | PD70X-000G0000-000000-U3-0-K |
| | | PD70X-000G0000-M00000-U3-0-K |
| | | PD70X-00000000-M00000-U3-0-K |
| | | HD705-00000000-000000-V1-0-B |
| | | HD705-000G0000-000000-V1-0-B |
| | | HD705-000G0000-M00000-V1-0-B |
| | | HD705-00000000-M00000-V1-0-B |
| | | HD705-00000000-000000-U1-0-F |
| | | HD705-000G0000-000000-U1-0-F |
| | | HD705-000G0000-M00000-U1-0-F |
| | | HD705-00000000-M00000-U1-0-F |
| | | HD705-00000000-000000-U1-0-H |
| | | HD705-000G0000-000000-U1-0-H |
| | | HD705-000G0000-M00000-U1-0-H |
| | | HD705-00000000-M00000-U1-0-H |
| | | HD705-00000000-000000-U2-0-K |
| | | HD705-000G0000-000000-U2-0-K |
| | | HD705-000G0000-M00000-U2-0-K |
| | | HD705-00000000-M00000-U2-0-K |
| | A3.07.03.000 | PD782-00000000-00000-U1-0-F |
| | | PD782-00000000-00000-V1-0-B |
| Mobile Subscriber | A3.05.08.001 | MD782-00000000-000000-U2-L-F |
| | | MD782-00000000-000000-U2-H-F |
| | | MD782-000G0000-000000-U2-H-F |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | A3.05.10.000 | MD782-000G0000-000000-U2-L-F |
| | | MD782-00000000-000000-U1-L-D |
| | | MD782-00000000-000000-U1-L-F |
| | | MD782-00000000-000000-U1-H-D |
| | | MD782-00000000-000000-U1-H-F |
| | | MD782-000G0000-000000-U1-L-D |
| | | MD782-000G0000-000000-U1-L-F |
| | | MD782-000G0000-000000-U1-H-D |
| | | MD782-000G0000-000000-U1-H-F |
| | | MD785-00000000-000000-V1-L-C |
| | A3.05.10.001 | MD78X-00000000-000000-V1-L-C |
| | | MD78X-00000000-000000-V1-H-C |
| | | MD78X-000G0000-000000-V1-L-C |
| | | MD78X-000G0000-000000-V1-H-C |
| | | MD78X-00000000-000000-U1-L-D |
| | | MD78X-00000000-000000-U1-H-D |
| | | MD78X-000G0000-000000-U1-H-D |
| | | MD78X-000G0000-000000-U1-L-D |
| | | MD78X-00000000-000000-U1-L-F |
| | | MD78X-00000000-000000-U1-H-F |
| | | MD78X-000G0000-000000-U1-H-F |
| | | MD78X-000G0000-000000-U1-L-F |
| | | MD78X-000G0000-000000-U3-L-F |
| | | MD78X-00000000-000000-U3-L-F |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | MD782-00000000-000000-U2-H-F |
| | | MD782-00000000-000000-U2-L-F |
| | | MD782-000G0000-000000-U2-H-F |
| | | MD782-000G0000-000000-U2-L-F |

R3.0 Models

| Subscriber | Firmware Version | Model Number |
|------------------------|------------------|------------------------------|
| Portable Subscriber | A3.00.11.000 | PD780-00000000-000000-U3-0-K |
| | | PD780-00000000-M00000-U3-0-K |
| | | PD780-000G0000-000000-U3-0-K |
| | | PD780-000G0000-M00000-U3-0-K |
| | A3.00.11.003 | PD78X-00000000-000000-V1-0-A |
| | | PD78X-000G0000-000000-V1-0-A |
| | | PD78X-000G0000-M00000-V1-0-A |
| | | PD78X-00000000-M00000-V1-0-A |
| | | PD78X-00000000-000000-V1-0-B |
| | | PD78X-000G0000-000000-V1-0-B |
| | | PD78X-000G0000-M00000-V1-0-B |
| | | PD78X-00000000-M00000-V1-0-B |
| | | PD78X-00000000-000000-U1-0-F |
| | | PD78X-000G0000-000000-U1-0-F |
| | | PD78X-000G0000-M00000-U1-0-F |
| | | PD78X-00000000-M00000-U1-0-F |
| | | PD78X-00000000-000000-U3-0-K |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD78X-000G0000-000000-U3-0-K |
| | | PD78X-000G0000-M00000-U3-0-K |
| | | PD78X-00000000-M00000-U3-0-K |
| | | HD785-00000000-000000-V1-0-B |
| | | HD785-000G0000-000000-V1-0-B |
| | | HD785-000G0000-M00000-V1-0-B |
| | | HD785-00000000-M00000-V1-0-B |
| | | HD785-00000000-000000-U1-0-F |
| | | HD785-000G0000-000000-U1-0-F |
| | | HD785-000G0000-M00000-U1-0-F |
| | | HD785-00000000-M00000-U1-0-F |
| | | PD70X-00000000-000000-V1-0-A |
| | | PD70X-000G0000-000000-V1-0-A |
| | | PD70X-000G0000-M00000-V1-0-A |
| | | PD70X-00000000-M00000-V1-0-A |
| | | PD70X-00000000-000000-V1-0-B |
| | | PD70X-000G0000-000000-V1-0-B |
| | | PD70X-000G0000-M00000-V1-0-B |
| | | PD70X-00000000-M00000-V1-0-B |
| | | PD70X-00000000-000000-U1-0-F |
| | | PD70X-000G0000-000000-U1-0-F |
| | | PD70X-000G0000-M00000-U1-0-F |
| | | PD70X-00000000-M00000-U1-0-F |
| | | PD70X-00000000-000000-U3-0-K |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD70X-000G0000-000000-U3-0-K |
| | | PD70X-000G0000-M00000-U3-0-K |
| | | PD70X-00000000-M00000-U3-0-K |
| | | HD705-00000000-000000-V1-0-B |
| | | HD705-000G0000-000000-V1-0-B |
| | | HD705-000G0000-M00000-V1-0-B |
| | | HD705-00000000-M00000-V1-0-B |
| | | HD705-00000000-000000-U1-0-F |
| | | HD705-000G0000-000000-U1-0-F |
| | | HD705-000G0000-M00000-U1-0-F |
| | | HD705-00000000-M00000-U1-0-F |
| | A3.00.12.000 | PD785-00000000-000000-V1-0-B |
| | | PD785-000G0000-000000-V1-0-B |
| | | PD785-000G0000-M00000-V1-0-B |
| | | PD785-00000000-M00000-V1-0-B |
| | | PD785-00000000-000000-U1-0-F |
| | | PD785-000G0000-000000-U1-0-F |
| | | PD785-000G0000-M00000-U1-0-F |
| | | PD785-00000000-M00000-U1-0-F |
| | | PD705-00000000-000000-V1-0-B |
| | | PD705-000G0000-000000-V1-0-B |
| | | PD705-000G0000-M00000-V1-0-B |
| | | PD705-00000000-M00000-V1-0-B |
| | | PD705-00000000-000000-U1-0-F |

| Subscriber | Firmware Version | Model Number |
|----------------------|------------------|------------------------------|
| Mobile Subscriber | | PD705-000G0000-000000-U1-0-F |
| | | PD705-000G0000-M00000-U1-0-F |
| | | PD705-00000000-M00000-U1-0-F |
| | A3.00.11.000 | MD780-000G0000-000000-U3-L-F |
| | | MD780-00000000-000000-U3-L-F |
| | A3.00.11.003 | MD78X-00000000-000000-V1-L-C |
| | | MD78X-00000000-000000-V1-H-C |
| | | MD78X-000G0000-000000-V1-L-C |
| | | MD78X-000G0000-000000-V1-H-C |
| | | MD78X-00000000-000000-U1-L-D |
| | | MD78X-00000000-000000-U1-H-D |
| | | MD78X-000G0000-000000-U1-H-D |
| | | MD78X-000G0000-000000-U1-L-D |
| | | MD78X-00000000-000000-U1-L-F |
| | | MD78X-00000000-000000-U1-H-F |
| | | MD78X-000G0000-000000-U1-H-F |
| | | MD78X-000G0000-000000-U1-L-F |
| | | MD78X-000G0000-000000-U3-L-F |
| | | MD78X-00000000-000000-U3-L-F |
| | A3.00.12.000 | MD785-00000000-000000-U1-L-F |
| | | MD785-00000000-000000-U1-H-F |
| | | MD785-000G0000-000000-U1-H-F |
| | | MD785-000G0000-000000-U1-L-F |
| | | MD785-00000000-000000-V1-L-C |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | MD785-00000000-000000-V1-H-C |
| | | MD785-000G0000-000000-V1-L-C |
| | | MD785-000G0000-000000-V1-H-C |

R2.5&R2.6 Models

| Subscriber | Firmware Version | Model Number |
|------------------------|------------------|------------------------------|
| Portable Subscriber | A2.05.03.000 | PD70X-000G0000-000000-V1-0-B |
| | | PD70X-00000000-000000-V1-0-B |
| | | PD78X-000G0000-000000-V1-0-A |
| | A2.05.05.000 | PD70X-000G0000-000000-V1-0-B |
| | | PD70X-00000000-000000-V1-0-B |
| | | PD70X-000G0000-M00000-V1-0-B |
| | | PD78X-000G0000-000000-V1-0-B |
| | | PD78X-000G0000-M00000-V1-0-B |
| | | PD78X-00000000-000000-V1-0-B |
| | | PD78X-000G0000-000000-V1-0-A |
| | | PD78X-000G0000-M00000-V1-0-A |
| | | PD78X-00000000-000000-V1-0-A |
| | A2.05.06.000 | PD78X-00000000-000000-V1-0-A |
| | | PD78X-000G0000-000000-V1-0-A |
| | | PD78X-000G0000-M00000-V1-0-A |
| | | PD78X-00000000-M00000-V1-0-A |
| | | PD78X-00000000-000000-V1-0-B |
| | | PD78X-000G0000-000000-V1-0-B |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD78X-000G0000-M00000-V1-0-B |
| | | PD78X-00000000-M00000-V1-0-B |
| | | PD78X-00000000-000000-U1-0-F |
| | | PD78X-000G0000-000000-U1-0-F |
| | | PD78X-000G0000-M00000-U1-0-F |
| | | PD78X-00000000-M00000-U1-0-F |
| | | HD785-00000000-000000-V1-0-B |
| | | HD785-000G0000-000000-V1-0-B |
| | | HD785-000G0000-M00000-V1-0-B |
| | | HD785-00000000-M00000-V1-0-B |
| | | HD785-00000000-000000-U1-0-F |
| | | HD785-000G0000-000000-U1-0-F |
| | | HD785-000G0000-M00000-U1-0-F |
| | | HD785-00000000-M00000-U1-0-F |
| | | PD70X-00000000-000000-V1-0-A |
| | | PD70X-000G0000-000000-V1-0-A |
| | | PD70X-000G0000-M00000-V1-0-A |
| | | PD70X-00000000-M00000-V1-0-A |
| | | PD70X-00000000-000000-V1-0-B |
| | | PD70X-000G0000-000000-V1-0-B |
| | | PD70X-000G0000-M00000-V1-0-B |
| | | PD70X-00000000-M00000-V1-0-B |
| | | PD70X-00000000-000000-U1-0-F |
| | | PD70X-000G0000-000000-U1-0-F |

| Subscriber | Firmware Version | Model Number |
|----------------------|------------------|------------------------------|
| | | PD70X-000G0000-M00000-U1-0-F |
| | | PD70X-00000000-M00000-U1-0-F |
| | | HD705-00000000-000000-V1-0-B |
| | | HD705-000G0000-000000-V1-0-B |
| | | HD705-000G0000-M00000-V1-0-B |
| | | HD705-00000000-M00000-V1-0-B |
| | | HD705-00000000-000000-U1-0-F |
| | | HD705-000G0000-000000-U1-0-F |
| | | HD705-000G0000-M00000-U1-0-F |
| | | HD705-00000000-M00000-U1-0-F |
| | A2.06.03.000 | PD780-00000000-000000-U1-0-F |
| Mobile Subscriber | A2.05.03.000 | MD78X-000G0000-000000-V1-H-C |
| | | MD78X-00000000-000000-V1-H-C |
| | A2.05.05.000 | MD78X-00000000-000000-V1-L-C |
| | | MD78X-00000000-000000-V1-H-C |
| | | MD78X-000G0000-000000-V1-L-C |
| | | MD78X-000G0000-000000-V1-H-C |
| | A2.05.06.000 | MD78X-00000000-000000-U1-L-D |
| | | MD78X-00000000-000000-U1-H-D |
| | | MD78X-000G0000-000000-U1-H-D |
| | | MD78X-000G0000-000000-U1-L-D |
| | | MD78X-00000000-000000-U1-L-F |
| | | MD78X-00000000-000000-U1-H-F |
| | | MD78X-000G0000-000000-U1-H-F |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | MD78X-000G0000-000000-U1-L-F |
| | | MD78X-00000000-000000-V1-L-C |
| | | MD78X-00000000-000000-V1-H-C |
| | | MD78X-000G0000-000000-V1-L-C |
| | | MD78X-000G0000-000000-V1-H-C |
| | A2.06.03.000 | MD780-00000000-000000-U1-H-D |

R2.0 Models

| Subscriber | Firmware Version | Model Number |
|------------------------|------------------|------------------------------|
| Portable Subscriber | A2.00.08.003 | PD702-000G0000-000000-U1-0-F |
| | | PD78X-000G0000-000000-V1-0-A |
| | A2.00.09.002 | PD702-00000000-000000-U1-0-F |
| | | PD705-00000000-000000-U1-0-F |
| | | PD702-000G0000-000000-U1-0-F |
| | A2.00.09.004 | PD78X-000G0000-000000-U1-0-F |
| | | PD78X-00000000-000000-U1-0-F |
| | | PD78X-00000000-M00000-U1-0-F |
| | | PD78X-000G0000-M00000-U1-0-F |
| | | PD70X-00000000-000000-U1-0-F |
| | | PD70X-000G0000-000000-U1-0-F |
| | | PD70X-00000000-M00000-U1-0-F |
| | | PD70X-000G0000-M00000-U1-0-F |
| Mobile Subscriber | A2.00.08.002 | MD782-000G0000-000000-U1-H-D |
| | A2.00.09.004 | MD78X-000G0000-000000-U1-H-D |
| | | MD78X-000G0000-000000-U1-L-D |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | MD78X-00000000-000000-U1-H-D |
| | | MD78X-00000000-000000-U1-L-D |

1.3.2 For Trunking Subscriber

R5.5 Models

| Subscriber | Firmware Version | Model Number |
|------------------------|------------------|------------------------------|
| Portable Subscriber | P5.05.10.001 | PD780-T00G00P0-M00000-U3-0-K |
| | A5.05.13.000 | |
| Covert Subscriber | P5.05.10.001 | X1p00-T00G00P0-MB0000-U3-0-B |
| Mobile Subscriber | P5.05.10.001 | MD780-T00G00P0-000000-U3-L-F |
| | | MD780-T00G00P0-000000-U3-L-H |
| | A5.05.13.000 | MD780-T00G00P0-000000-U3-L-H |

R5.0 Models

| Subscriber | Firmware Version | Model Number |
|------------------------|------------------|------------------------------|
| Portable Subscriber | S5.00.09.202 | PD780-T00G00P0-M00000-U3-0-K |
| | S5.00.12.200 | PD780-T00G00P0-M00000-U3-0-K |
| | S5.00.13.200 | PD780-T00G00P0-M00000-U3-0-K |
| | E5.00.15.001 | PD780-T0G000P0-M00000-U3-0-K |
| | S5.00.15.001 | PD78X-T00000P0-000000-V1-0-A |
| | | PD78X-T00G00P0-000000-V1-0-A |
| | | PD78X-T00G00P0-M00000-V1-0-A |
| | | PD78X-T00000P0-M00000-V1-0-A |
| | | PD78X-T00000P0-000000-V1-0-B |
| | | |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD78X-T00G00P0-000000-V1-0-B |
| | | PD78X-T00G00P0-M00000-V1-0-B |
| | | PD78X-T00000P0-M00000-V1-0-B |
| | | PD78X-T00000P0-000000-U1-0-F |
| | | PD78X-T00G00P0-000000-U1-0-F |
| | | PD78X-T00G00P0-M00000-U1-0-F |
| | | PD78X-T00000P0-M00000-U1-0-F |
| | | PD78X-T00000P0-000000-U1-0-H |
| | | PD78X-T00G00P0-000000-U1-0-H |
| | | PD78X-T00G00P0-M00000-U1-0-H |
| | | PD78X-T00000P0-M00000-U1-0-H |
| | | PD78X-T00000P0-000000-U1-0-K |
| | | PD78X-T00G00P0-000000-U1-0-K |
| | | PD78X-T00G00P0-M00000-U1-0-K |
| | | PD78X-T00000P0-M00000-U1-0-K |
| | | PD78X-T00000P0-000000-U2-0-K |
| | | PD78X-T00000P0-M00000-U2-0-K |
| | | PD78X-T00G00P0-000000-U2-0-K |
| | | PD78X-T00G00P0-M00000-U2-0-K |
| | | PD78X-T00000P0-000000-U3-0-K |
| | | PD78X-T00G00P0-000000-U3-0-K |
| | | PD78X-T00G00P0-M00000-U3-0-K |
| | | PD78X-T00000P0-M00000-U3-0-K |
| | | PD70X-T00000P0-000000-V1-0-A |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | PD70X-T00G00P0-000000-V1-0-A |
| | | PD70X-T00G00P0-M00000-V1-0-A |
| | | PD70X-T00000P0-M00000-V1-0-A |
| | | PD70X-T00000P0-000000-V1-0-B |
| | | PD70X-T00G00P0-000000-V1-0-B |
| | | PD70X-T00G00P0-M00000-V1-0-B |
| | | PD70X-T00000P0-M00000-V1-0-B |
| | | PD70X-T00000P0-000000-U1-0-F |
| | | PD70X-T00G00P0-000000-U1-0-F |
| | | PD70X-T00G00P0-M00000-U1-0-F |
| | | PD70X-T00000P0-M00000-U1-0-F |
| | | PD70X-T00000P0-000000-U1-0-H |
| | | PD70X-T00G00P0-000000-U1-0-H |
| | | PD70X-T00G00P0-M00000-U1-0-H |
| | | PD70X-T00000P0-M00000-U1-0-H |
| | | PD70X-T00000P0-000000-U1-0-K |
| | | PD70X-T00G00P0-000000-U1-0-K |
| | | PD70X-T00G00P0-M00000-U1-0-K |
| | | PD70X-T00000P0-M00000-U1-0-K |
| | | PD70X-T00000P0-000000-U2-0-K |
| | | PD70X-T00000P0-M00000-U2-0-K |
| | | PD70X-T00G00P0-000000-U2-0-K |
| | | PD70X-T00G00P0-M00000-U2-0-K |
| | | PD70X-T00000P0-000000-U3-0-K |

| Subscriber | Firmware Version | Model Number |
|----------------------------------|------------------------------|------------------------------|
| | | PD70X-T00G00P0-000000-U3-0-K |
| | | PD70X-T00G00P0-M00000-U3-0-K |
| | | PD70X-T00000P0-M00000-U3-0-K |
| Covert Subscriber | S5.00.09.002 | X1P00-T00G00P0-MB0000-U3-0-B |
| | S5.00.13.000 | X1p00-T00G00P0-MB0000-U3-0-B |
| | S5.00.13.200 | X1p00-T00G00P0-MB0000-U3-0-B |
| | S5.00.15.001 S5.00.15.002 | X1e0X-T00G00P0-MB0000-U1-0-D |
| | | X1e0X-T00G00P0-MB0000-U2-0-D |
| | | X1e0X-T00G00P0-MB0000-V1-0-F |
| | | X1e0X-T00G00P0-MB0000-U3-0-D |
| | | X1p0X-T00G00P0-MB0000-U1-0-B |
| | | X1p0X-T00G00P0-MB0000-U3-0-B |
| | | X1p0X-T00G00P0-MB0000-V1-0-A |
| Intrinsically-safe Subscriber | S5.00.09.202 | PD780-TE0G00P0-M00000-U3-0-K |
| | S5.00.12.200 | PD780-TE0G00P0-M00000-U3-0-K |
| | S5.00.13.200 | PD780-TE0G00P0-M00000-U3-0-K |
| Mobile Subscriber | S5.00.09.002 | MD780-T00G00P0-000000-U1-H-H |
| | | MD780-T00G00P0-000000-U1-L-H |
| | | MD780-T00G00P0-000000-U3-L-H |
| | S5.00.09.202 | MD780-T00G00P0-000000-U1-H-H |
| | | MD780-T00G00P0-000000-U1-L-H |
| | | MD780-T00G00P0-000000-U3-L-H |
| | | MD780-T00G00P0-000000-U3-L-F |
| | | MD780-T00G00P0-000000-U3-H-H |

| Subscriber | Firmware Version | Model Number |
|------------|--|------------------------------|
| | S5.00.12.200 | MD780-T00G00P0-000000-U1-H-H |
| | | MD780-T00G00P0-000000-U1-L-H |
| | | MD780-T00G00P0-000000-U1-L-F |
| | | MD780-T00G00P0-000000-U3-L-H |
| | | MD780-T00G00P0-000000-U3-L-F |
| | | MD780-T00G00P0-000000-U3-H-H |
| | S5.00.13.200 | MD780-T00G00P0-000000-U1-H-H |
| | | MD780-T00G00P0-000000-U1-L-H |
| | | MD780-T00G00P0-000000-U1-L-F |
| | | MD780-T00G00P0-000000-U3-L-H |
| | | MD780-T00G00P0-000000-U3-L-F |
| | | MD780-T00G00P0-000000-U3-H-H |
| | S5.00.15.001 E5.00.15.001 S5.00.15.002 E5.00.15.002 | MD78X-T00000P0-000000-V1-L-C |
| | | MD78X-T00000P0-000000-V1-H-C |
| | | MD78X-T00G00P0-000000-V1-L-C |
| | | MD78X-T00G00P0-000000-V1-H-C |
| | | MD78X-T00000P0-000000-V1-L-D |
| | | MD78X-T00000P0-000000-V1-H-D |
| | | MD78X-T00G00P0-000000-V1-L-D |
| | | MD78X-T00G00P0-000000-V1-H-D |
| | | MD78X-T00R00P0-000000-V1-L-D |
| | | MD78X-T00R00P0-000000-V1-H-D |
| | | MD78X-T00000P0-000000-U1-L-D |
| | | MD78X-T00000P0-000000-U1-H-D |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | MD78X-T00G00P0-000000-U1-H-D |
| | | MD78X-T00G00P0-000000-U1-L-D |
| | | MD78X-T00000P0-000000-U1-L-H |
| | | MD78X-T00000P0-000000-U1-H-H |
| | | MD78X-T00G00P0-000000-U1-H-H |
| | | MD78X-T00G00P0-000000-U1-L-H |
| | | MD78X-T00R00P0-000000-U1-L-H |
| | | MD78X-T00R00P0-000000-U1-H-H |
| | | MD78X-T00000P0-000000-U1-L-F |
| | | MD78X-T00000P0-000000-U1-H-F |
| | | MD780-T00G00P0-000000-U1-H-F |
| | | MD78X-T00G00P0-000000-U1-L-F |
| | | MD78X-T00G00P0-000000-U3-L-F |
| | | MD78X-T00000P0-000000-U3-L-F |
| | | MD78X-T00G00P0-000000-U3-H-H |
| | | MD78X-T00000P0-000000-U3-H-H |
| | | MD78X-T00G00P0-000000-U3-L-H |
| | | MD78X-T00000P0-000000-U3-L-H |
| | | MD780-T00000P0-000000-U2-H-F |
| | | MD78X-T00000P0-000000-U2-L-F |
| | | MD78X-T00G00P0-000000-U2-H-F |
| | | MD78X-T00G00P0-000000-U2-L-F |
| | | MD78X-T00000P0-000000-U2-H-H |
| | | MD78X-T00000P0-000000-U2-L-H |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | MD78X-T00G00P0-000000-U2-H-H |
| | | MD78X-T00G00P0-000000-U2-L-H |
| | | MD78X-T00000P0-000000-U5-H-F |
| | | MD78X-T00G00P0-000000-U5-H-F |

R4.6 Models

| Subscriber | Firmware Version | Model Number |
|------------------------|------------------|------------------------------|
| Portable Subscriber | S4.06.09.001 | PD78X-T00G00P0-M00000-U3-0-K |
| | | PD78X-T00G00P0-M00000-U1-0-H |
| | | PD78X-T00G00P0-M00000-U1-0-K |
| | S4.06.09.002 | PD780-T00G00P0-M00000-U3-0-K |
| | S4.06.09.003 | PD78X-T00G00P0-M00000-U3-0-K |
| | | PD78X-T00G00P0-M00000-U1-0-H |
| | | PD78X-T00G00P0-M00000-V1-0-B |
| | | PD78X-T00G00P0-M00000-U1-0-K |
| | | PD78X-T00000P0-000000-U1-0-F |
| | | PD78X-T00G00P0-000000-U1-0-F |
| | | PD78X-T00G00P0-M00000-U1-0-F |
| | | PD70X-T00000P0-000000-U1-0-F |
| | | PD70X-T00G00P0-000000-U1-0-H |
| | | PD70X-T00000P0-000000-U1-0-H |
| | | PD78X-T00000P0-000000-U1-0-H |
| | | PD78X-T00G00P0-M00000-U1-0-K |
| | | PD78X-T00G00P0-M00000-U1-0-F |

| Subscriber | Firmware Version | Model Number |
|----------------------------------|------------------|------------------------------|
| Covert Subscriber | S4.06.09.003 | X1e0X-T00G00P0-MB0000-U1-0-D |
| | | X1e0X-T00G00P0-MB0000-U3-0-D |
| | | X1e0X-T00G00P0-MB0000-V1-0-F |
| Intrinsically-safe Subscriber | S4.06.09.001 | PD780-TE0G00P0-M00000-U1-0-H |
| | S4.06.09.003 | PD780-TE0000P0-M00000-U1-0-H |
| | | PD780-TE0G00P0-M00000-U1-0-H |
| | | PD780-TE0000P0-M00000-U3-0-K |
| | | PD780-TE0G00P0-M00000-U3-0-K |
| | | PD780-TE0G00P0-M00000-U1-0-H |
| | | PD790-TE0000P0-M00000-U1-0-D |
| | | PD790-TE0G00P0-M00000-U1-0-D |
| Mobile Subscriber | S4.06.09.001 | MD78X-T00G00P0-000000-U1-H-F |
| | | MD78X-T00G00P0-000000-U1-L-F |
| | | MD78X-T00G00P0-000000-U3-L-F |
| | | MD78X-T00G00P0-000000-U3-H-H |
| | S4.06.09.003 | MD78X-T00000P0-000000-U1-H-F |
| | | MD78X-T00G00P0-000000-U1-H-F |
| | | MD78X-T00G00P0-000000-U1-L-F |
| | | MD78X-T00G00P0-000000-U1-H-H |
| | | MD78X-T00G00P0-000000-U1-L-H |
| | | MD78X-T00G00P0-000000-U1-H-D |
| | | MD78X-T00G00P0-000000-U3-L-F |
| | | MD78X-T00G00P0-000000-U3-H-H |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | MD78X-T00G00P0-000000-U3-L-H |
| | | MD78X-T00G00P0-000000-U1-H-H |
| | | MD78X-T00G00P0-000000-U1-L-H |
| | | MD78X-T00G00P0-000000-U3-L-H |

R4.5 Models

| Subscriber | Firmware Version | Model Number |
|------------------------|------------------|------------------------------|
| Portable Subscriber | S4.05.16.003 | PD78X-T00G00P0-M00000-U3-0-K |
| | | PD78X-T00G00P0-M00000-U1-0-H |
| | | PD78X-T00G00P0-M00000-V1-0-B |
| | | PD78X-T00G00P0-M00000-U1-0-K |
| | | PD78X-T00000P0-000000-U1-0-F |
| | | PD78X-T00G00P0-000000-U1-0-F |
| | | PD70X-T00000P0-000000-U1-0-F |
| | | PD70X-T00G00P0-000000-U1-0-H |
| | | PD70X-T00000P0-000000-U1-0-H |
| | | PD78X-T00000P0-000000-U1-0-H |
| | | PD70X-T00000P0-000000-U1-0-F |
| | | |
| Covert Subscriber | S4.05.16.003 | X1e0X-T00G00P0-MB0000-U1-0-D |
| | | X1e0X-T00G00P0-MB0000-V1-0-F |
| | | X1e0X-T00G00P0-MB0000-U3-0-D |
| Mobile Subscriber | S4.05.16.003 | MD78X-T00G00P0-000000-U1-H-F |
| | | MD78X-T00G00P0-000000-U1-L-F |
| | | MD78X-T00G00P0-000000-U3-L-F |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | MD78X-T00G00P0-000000-U3-H-H |
| | | MD78X-T00000P0-000000-U1-H-F |
| | | MD78X-T00G00P0-000000-U1-H-D |
| | | MD78X-T00G00P0-000000-U1-H-H |
| | | MD78X-T00G00P0-000000-U1-L-H |
| | | MD78X-T00G00P0-000000-U3-L-H |

R3.8 Models

| Subscriber | Firmware Version | Model Number |
|------------------------|------------------|------------------------------|
| Portable Subscriber | S3.08.08.000 | PD88X-T00G00P0-M00000-U3-0-K |
| | S3.08.11.001 | PD88X-T00G00P0-M00000-U3-0-K |
| | | PD78X-T00G00P0-M00000-U3-0-K |
| | | PD78X-T00G00P0-M00000-U1-0-H |
| | | PD78X-T00G00P0-M00000-U1-0-K |
| | | PD78X-T00G00P0-M00000-U1-0-F |
| | S3.08.11.002 | PD78X-T00G00P0-M00000-U3-0-K |
| | | PD78X-T00G00P0-M00000-U1-0-H |
| | | PD78X-T00G00P0-M00000-U1-0-K |
| | | PD78X-T00G00P0-M00000-U1-0-F |
| Mobile Subscriber | S3.08.11.001 | MD88X-T00G00P0-000000-U3-L-F |
| | | MD78X-T00G00P0-000000-U1-H-F |
| | | MD78X-T00G00P0-000000-U1-L-F |
| | | MD78X-T00G00P0-000000-U3-L-F |
| | | MD78X-T00G00P0-000000-U3-H-H |
| | S3.08.11.002 | MD78X-T00G00P0-000000-U1-H-F |

| Subscriber | Firmware Version | Model Number |
|------------|------------------|------------------------------|
| | | MD78X-T00G00P0-000000-U1-L-F |
| | | MD78X-T00G00P0-000000-U1-H-H |
| | | MD78X-T00G00P0-000000-U1-L-H |
| | | MD78X-T00G00P0-000000-U3-L-F |
| | | MD78X-T00G00P0-000000-U3-H-H |
| | | MD78X-T00G00P0-000000-U3-L-H |

R3.5 Models

| Subscriber | Firmware Version | Model Number |
|------------------------|------------------|------------------------------|
| Portable Subscriber | S3.05.08.003 | PD88X-T00G00P0-M00000-U3-0-K |

2. Installation of Upgrade Program

Before the firmware upgrade, install the corresponding program in the following steps.

Step 1 Prepare the firmware upgrade package.

Prepare the upgrade package for the subscriber to be upgraded, according to your exact needs.

Step 2 Decompress the upgrade package.

You can find the corresponding firmware upgrade guide and setup program.

Step 3 Double click the program (setup.exe) to start the installation.

Step 4 Refer to the interface prompts to finish the installation.

Then you can find a desktop shortcut for this upgrade software.



3. Instruction on MD78X Upgrade

3.1 Requirement

- The function keys of the subscriber must have been assigned with dedicated functions before upgrade.



- The PC47 programming cable must be available. See the figure below.



If PC47 is not available, you can use a palm microphone, the microphone hanger and the PC37 programming cable (as shown below).



3.2 Operation

3.2.1 Upgrade Procedure

Step 1 Power off the subscriber.

Step 2 Enter the download mode.

- When using the PC47 programming cable, enter the download mode in this way:
 1. Toggle the switch on PC47 to the DL end (do not toggle to the DL end during programming).
 2. Use PC47 to connect the subscriber and PC.
 3. Power on the subscriber and enter the download mode.

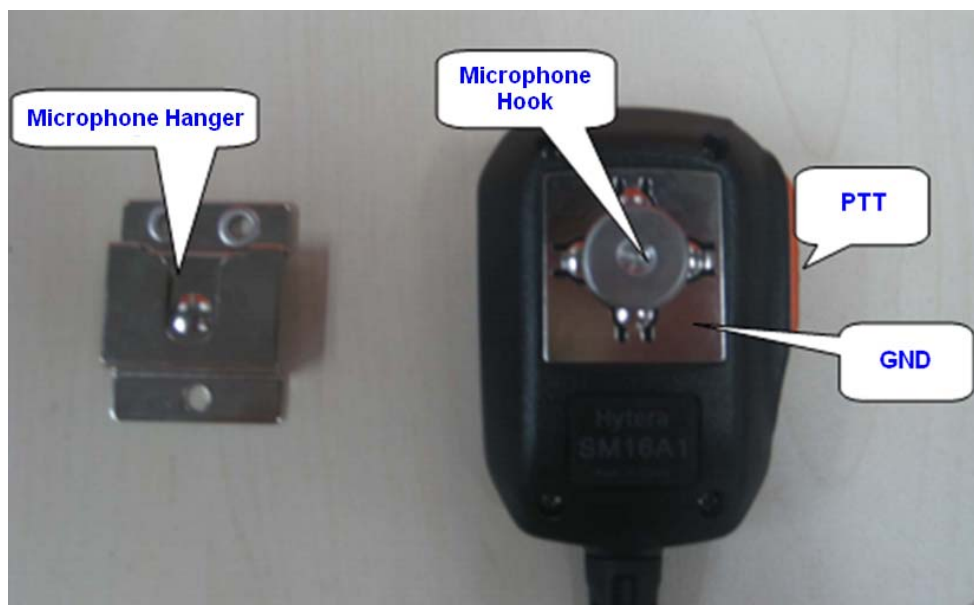
If the subscriber enters the download mode successfully, the LED will flash red for seconds and then glow red solidly. Otherwise, it indicates the access may fail. In this case, you need to try to enter again.

After upgrade, toggle the switch on PC47 to the CPS end and then power off the subscriber.

- When using the palm microphone and its hanger, enter the download mode in this way:
 4. Connect the palm microphone to the 10Pin connector on the subscriber, and hook the palm microphone on the hanger.



Note: If the microphone hanger is not available, you can connect the hook to the GND using a metal conductor.



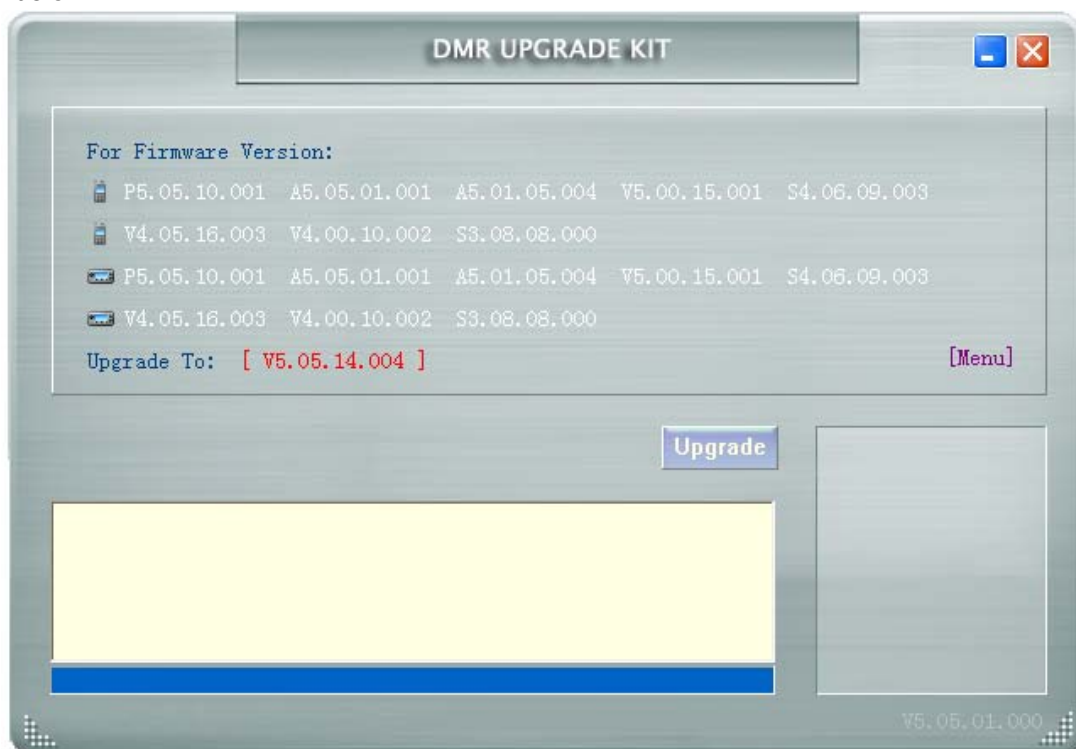
5. Hold the **PTT** on the palm microphone and power on the subscriber, so as to enter the download mode.

If the subscriber enters the download mode successfully, the LED will flash red for seconds and then glow red solidly. Otherwise, it indicates the access may fail. In this case, you need to try to enter again.

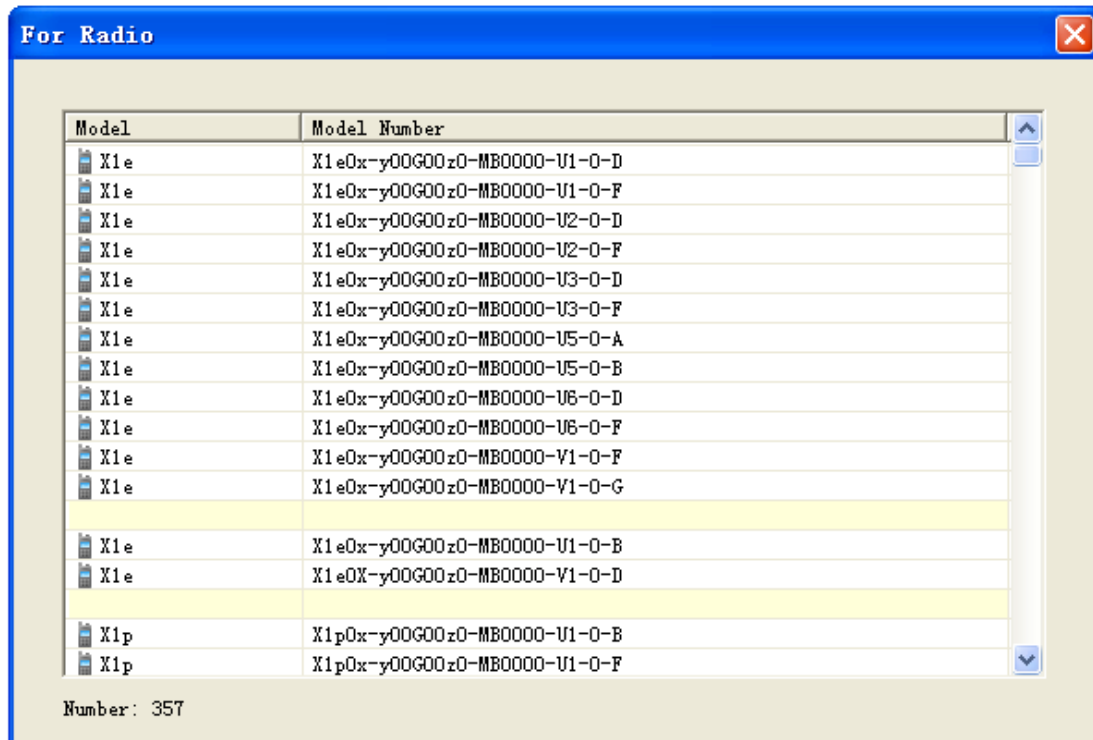
6. Disconnect the palm microphone and subscriber, and use the programming cable to connect the subscriber to PC.

Step 3 Run the software using the corresponding shortcut.

If a "Restore" button is displayed in the main interface, it indicates abnormality of the RCDB data during the previous upgrade. In this case, please repair the subscriber, with reference to Step 5 below.



- A. Go to "Menu -> For Radio" and check the model and firmware version, as shown below.



- B. (optional) Go to "Menu -> Language" to change the upgrade language package, including : Farsi, Arabic, Korean, Thai.

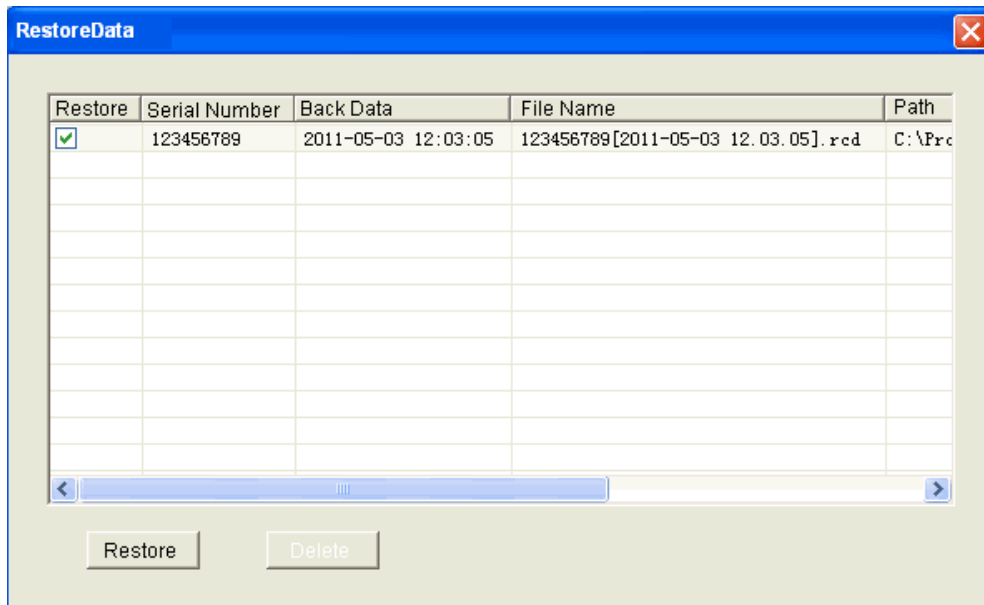
Step 4 Click "Upgrade" in the main interface to begin.

During the upgrade process,

- In case of "Open USB failed", check whether the cable is properly connected to the subscriber, and whether the USB interface is busy with other software.
- In case of "The firmware version [xx.x.xx.xxx] is beyond the upgrade software!", it indicates the upgrade package is not compatible with the current firmware or model. Please stop upgrading right away.
- In case of "Reading data error!" or "Writing data error!" or alerts alike, it indicates the USB connection has run out. Click "OK", and try the upgrade again by restarting the subscriber and entering the download mode.
- In case of "Writing data error! RCDB data is already saved to file, from which you can restore your data when necessary.", it indicates an abnormality of the RCDB data during upgrade. Click "OK" and then you can see a "Restore" button in the main interface.

Step 5 (optional) Repair the subscriber in case of the RCDB data abnormality, in this way:

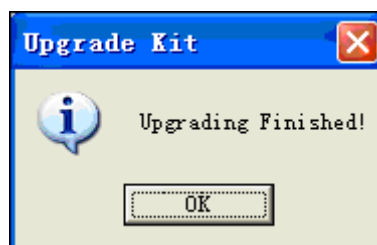
1. Click "Restore" to proceed to the corresponding interface.



2. Select the serial number of the subscriber to be repaired, and click “Restore” again.
If the serial number is not available, do not use the button “Restore”.
3. Refer to Step 3~Step 4 for more operation.

Step 6 A prompt box as shown below appears upon successful upgrade.

If no prompt appears, please try the upgrade again by restarting the subscriber and entering the download mode.



Step 7 Click “OK” and power off the subscriber.

3.2.2 Authentication Procedure

After the above operation, the firmware version will be upgraded to **A5.05.14.004** or **S5.05.14.004**.

Please perform authentication in this way:

Step 1 Power on the subscriber.

Step 2 Press the **Menu** key to enter the main menu.

Step 3 Press the **Down** key to select “Settings”.

- Step 4** Press the **OK** key to enter the “Settings” interface.
- Step 5** Press the **Down** key to select “Device Info”.
- Step 6** Press the **OK** key to enter the “Device Info” interface, to view the details of the subscriber.
- Step 7** Check whether the firmware version is **A5.05.14.004** or **S5.05.14.004**.
- Step 8** Power off the subscriber.

4. Instruction on PD78X/HD785/PD79X Upgrade

4.1 Requirement

- The function keys of the subscriber must have been assigned with dedicated functions before upgrade.



- The appropriate programming cable must be available.

For example, for PD78X, the PC38 programming cable must be available, as shown below.

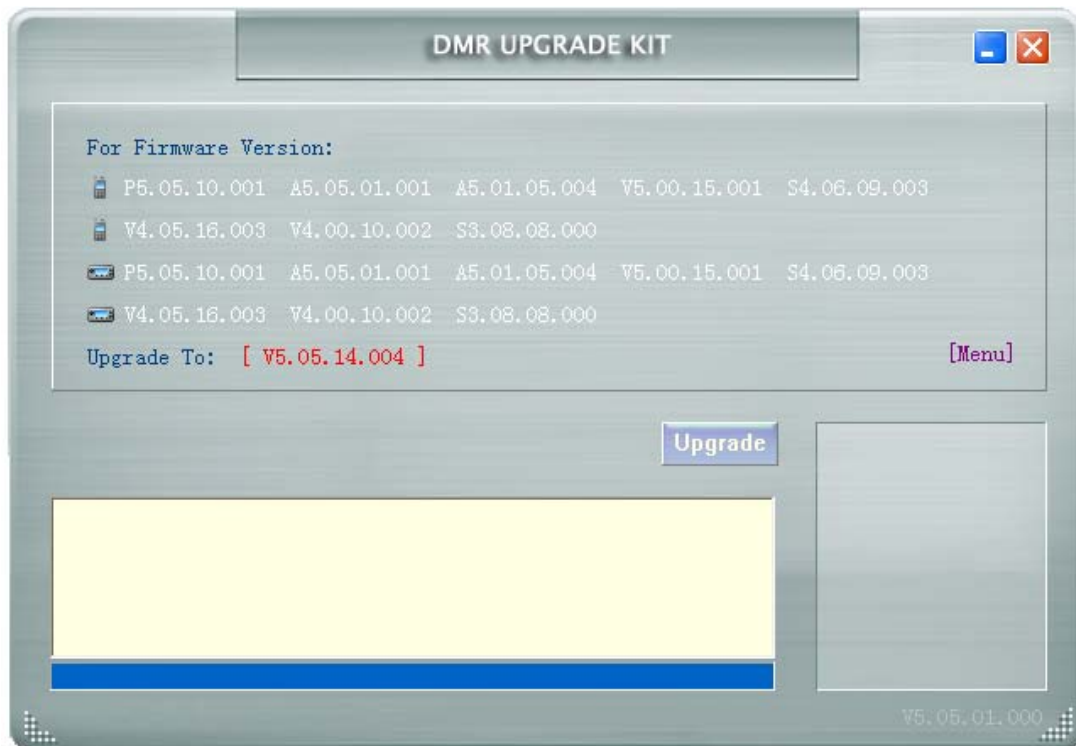


4.2 Operation

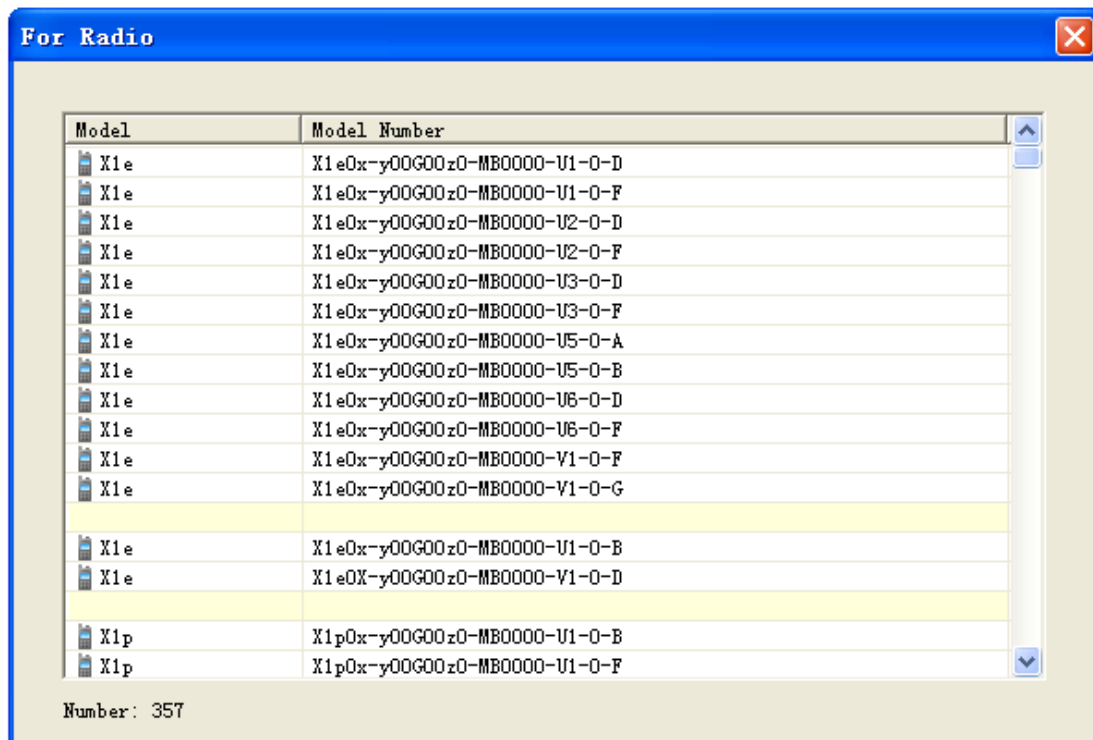
4.2.1 Upgrade Procedure

- Step 1** Power off the subscriber.
- Step 2** Connect the subscriber to PC.
- Step 3** Hold the **PTT** and **TK** while powering it on, so as to enter the download mode.
- Step 4** Run the software using the corresponding shortcut.

If a “Restore” button is displayed in the main interface, it indicates abnormality of the RCDB data during previous upgrade. In this case, please repair the subscriber, with reference to Step 6 below.



Go to “Menu -> For Radio” and check the model and firmware version, as shown below.



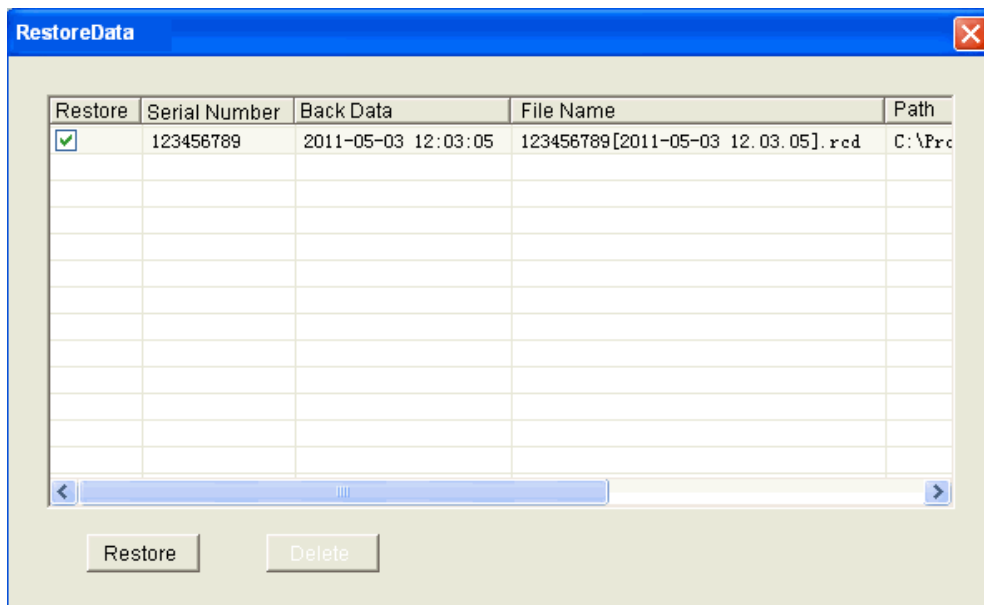
Step 5 Click “Upgrade” in the main interface to begin.

During the upgrade process,

- In case of “Open USB failed”, check whether the cable is properly connected to the subscriber, and whether the USB interface is busy with other software.
- In case of “The firmware version [xx.x.xx.xxx] is beyond the upgrade software!”, it indicates the upgrade package is not compatible with the current firmware or model. Please stop upgrading right away.
- In case of “Reading data error!” or “Writing data error!” or alerts alike, it indicates the USB connection has run out. Click “OK”, and try the upgrade again by restarting the subscriber and entering the download mode.
- In case of “Writing data error! RCDB data is already saved to file, from which you can restore your data when necessary.”, it indicates an abnormality of the RCDB data during upgrade. Click “OK” and then you can see a “Restore” button in the main interface.

Step 6 (optional) Repair the subscriber in case of the RCDB data abnormality, in this way:

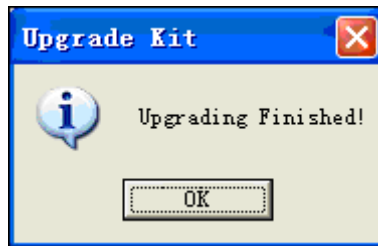
1. Click “Restore” to proceed to the corresponding interface.



2. Select the serial number of the subscriber to be repaired, and click “Restore” again.
If the serial number is not available, do not use the button “Restore”.
3. Refer to Step 4~Step 5 for more operation.

Step 7 A prompt box as shown below appears upon successful upgrade.

If no prompt appears, please try the upgrade again by restarting the subscriber and entering the download mode.



Step 8 Click "OK" and power off the subscriber.

4.2.2 Authentication Procedure

After the above operation, the firmware version will be upgraded to **A5.05.14.004** or **S5.05.14.004**.

Please perform authentication in this way:

Step 1 Power on the subscriber.

Step 2 Press the **Menu** key to enter the main menu.

Step 3 Press the **Down** key to select "Settings".

Step 4 Press the **OK** key to enter the "Settings" interface.

Step 5 Press the **Down** key to select "Device Info".

Step 6 Press the **OK** key to enter the "Device Info" interface, to view the details of the subscriber.

Step 7 Check whether the firmware version is **A5.05.14.004** or **S5.05.14.004**.

Step 8 Power off the subscriber.

5. Instruction on PD70X/HD705 Upgrade

The instruction for PD70X/HD705 upgrade is similar to that for PD78X/HD785 upgrade. Please refer to the section “4 Instruction on PD78X/HD785/PD79X Upgrade”.

As no LCD is designed for PD70X/HD705, the firmware information can only be checked via the CPS of **V5.05.14.002**. Perform check the firmware information in this way:

Step 1 Power off the subscriber.

Step 2 Use the CPS of **V5.05.14.002** to read data from the target subscriber.

Step 3 Click the “Radio Information” to check whether the firmware version is **A5.05.14.004** or **S5.05.14.004**.

Step 4 Power off the subscriber.

6. Instruction on X1e Upgrade

6.1 Requirement

The function keys of the subscriber must have been assigned with dedicated functions before upgrade.



6.2 Operation

The operation for X1e upgrade is similar to that for PD78X upgrade. Please refer to the section “4 Instruction on PD78X/HD785/PD79X Upgrade”.

However, X1e enters the download mode via a different way.

6.2.1 Upgrade Procedure

Step 1 Power off the subscriber.

Step 2 Connect the subscriber to PC, and toggle the switch on the programming cable to the DL end.

The programming cable for X1e is PC45, as shown below.



Step 3 Power on the subscriber and enter the download mode.

Step 4 After upgrade, toggle the switch on PC45 to the CPS end and then power off the subscriber.

6.2.2 Authentication Procedure

As no LCD is designed for X1e, the firmware information can be checked via the CPS of **V5.05.14.002**.

Perform check in this way:

Step 1 Power off the subscriber.

Step 2 Use the CPS of **V5.05.14.002** to read data from the target subscriber.

Click the "Radio Information" to check whether the firmware version is **A5.05.14.004** or **S5.05.14.004**.

Step 3 Power off the subscriber.