



TETRA Terminal
Release Notes



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Documentation Information

Purpose

This document gives detailed instructions on TETRA terminal R7.6 release, providing the terminal users and sales persons with the enhancements and new features of the version.

Documentation Conventions

Icon Conventions

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.

Notation 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
V1.0	December 2016	Initial release.

1. Product Information

Firmware Version

Terminal Model	Version
PT580H Plus(B/E/S)	V3.07.36.009
Z1p	V3.07.36.009
PT790Ex	V3.07.36.009
PT580H Plus UL913	V3.07.36.009
MT680 Plus (B/E/S)	V3.07.36.009



Note: B indicates the basic version, E indicates the executive version, and S indicates the specialized version.

Application Version

Application	Version
Customer Programming Software (CPS)	V3.07.36.009
Key Management Assistant (KMA)	V1.07.09.007 or later
Upgrade Kit	V3.07.36.009
Over the Air Programming (OTAP)	V1.01.10.008
Drive Test	V2.01.01.008

API Version

API	Version
Peripheral equipment interface (PEI)	V3.2

Applicable Terminal

Terminal Model	320–380 (MHz)	380–430 (MHz)	405–475 (MHz)	806–870 (MHz)
PT580H Plus	---	√	√	√

Terminal Model	320–380 (MHz)	380–430 (MHz)	405–475 (MHz)	806–870 (MHz)
PT580H Plus UL913	---	√	√	√
Z1p	√	√	√	√
PT790Ex	√	√	√	√
MT680 Plus	√	√	√	√

Documentation for This Release

Document	Description
TETRA Terminal Software and Hardware Version Description_R2.5	Updated.
TETRA Terminal PFC Operation Guide_R2.0	Updated.
TETRA Terminal Upgrade Guide_R7.6_V1.0	Initial release.
TETRA Terminal Route Trace Application Notes_R1.0	Initial release.
TETRA Terminal Back-to-back Application Notes_R2.0	Updated.
TETRA Terminal DMO Gateway Application Notes_R4.0	Updated.
TETRA Terminal DM-REP Mode Application Notes_R4.0	Updated.
TETRA Terminal Group Management Application Notes_R2.0	Updated.

2. What's New in This Release

2.1 General Introduction

This release supports the following terminals: PT580H Plus, PT580H Plus UL913, MT680 Plus, Z1p, and PT790Ex.

The enhancements and new features described in this document are based on R7.5.



Note

- Unless otherwise specified, the described features are applicable to all the above-mentioned terminals.
- The availability of the end-to-end encryption (E2EE) feature is subject to the Digital Signal Processing (DSP) firmware written into the terminal.

2.2 Terminal

2.2.1 New Features

Route Trace

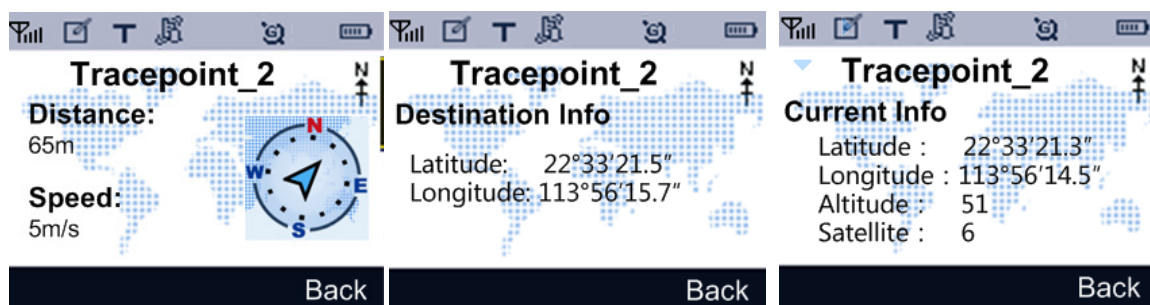
This feature helps the user to quickly reach the destination by providing the following navigation information:

- distance from the user to the destination
- terminal movement speed and real-time coordinates
- destination coordinates and direction

The user can use this feature in the following two ways:

- Menu Screen


The "Trace" option under the "Routetrace" menu provides real-time navigation information in more details. However, the user must end the trace before performing other menu operations.



■ Home Screen

The "Trace in Home" option under the "Routetrace" menu provides simpler navigation information on the home screen. The user can perform other operations after pressing the **Group/Back** key to temporarily exit the navigation interface. The interface appears again after the terminal is standby.



 Note: This feature is available only for terminals that support a positioning system. In addition, it requires a purchased license. For details about license application, refer to *TETRA Terminal PFC Operation Guide_R2.0*. For detailed operations of this feature, refer to *TETRA Terminal Route Trace Application Notes_R1.0*.

Group Number Dial

This feature allows the user to enter a group number from the home screen for initiating a group call.

The following are some restrictions on this feature:

- 1) This feature is available only in TMO.
- 2) The call can be initiated successfully only when the target group is in the terminal's group list and group attachment succeeds.
- 3) The call cannot be initiated if the user enters the background group number.
- 4) If the entered number is not the default group number, the default group number does not change with the call.
- 5) If this feature has a low priority, the call can be initiated only when it does not affect other features, for example, the Call Default Group feature of PTT and notification group (NTG).

Group Call Detector

This feature helps the dispatch station determine the number of terminals participating in the current group call.

The dispatcher sends a designated status message when initiating a group call. After receiving the status message, the terminals participating in the group call automatically return another designated status message to the dispatch station.

2.2.2 Enhancements

AIE Supported by Repeater

This release allows the repeater to forward voice and data encrypted in AIE DM-2-C manner, which is the highest achievable encrypted level in DMO for Air Interface Encryption.

For example, when receiving a message encrypted in AIE DM-2-C manner, the repeater forwards the message if it can decrypt the message; otherwise, it neglects the message.



Note: In R7.6 and later versions, the repeater can forward voice and data encrypted in AIE DM-2-C manner only.

Call Initiation and Participation by Repeater

This release allows the terminal operating in repeater mode to initiate and participate in a call.

Profile Customization

This release adds three customized profiles. The profile options include three customized modes, one silent mode, and one vibration mode. The customized mode can be set on the CPS or terminal, and the settings involve ring type, volume, and other parameters.



Note: The vibration mode is unavailable to terminals without a motor, for example, PT790 Ex and MT680 Plus.

DGNA in Gateway Mode

This release allows the terminal operating in gateway mode to support the DGNA feature. With the DGNA feature enabled, the dispatcher or authorized user can establish a dynamic group and manage the members in the group. The terminal can save at most 20 dynamic groups.



Note: This enhancement is available only for MT680 Plus. In gateway mode, the dynamic group is invisible on the terminal.

Broadcast Call Initiation Through Menu

This release allows the user to initiate the broadcast call through the terminal menu. The following are some features of this enhancement:

- The group to which the broadcast call is initiated must be an always scanned group, and it is invisible on the terminal.
- The "Broadcast" menu is available only in TMO.
- The user can access the "Broadcast" menu only when the terminal is standby.

Home Screen Display

This release allows the radio to display at most four lines of information, including RSSI, on the home screen.



Note: The information displayed on the home screen needs to be set on the CPS.

Display RSSI in Calling

This release allows the terminal to display RSSI during a call, providing real-time RSSI information for the user.

Folder Creating and Renaming Through Menu

This release allows the user to create and rename a folder through the terminal menu, improving user experience and work efficiency.



Note: The user cannot delete a folder through the terminal menu.

Scan Group Priority Changing Through Menu

This release allows the user to change the priority of a scan group through the terminal menu, improving user experience and work efficiency.

Predictive Input Method

This release allows the predictive input method to function in more languages and more convenient manner. This reduces the keystrokes, improving the input speed and user experience.

Only Use Mic of BT Earpiece

This feature allows you to set whether the voice is received and transmitted through the BT earpiece connected to the terminal. With this feature enabled, the voice is transmitted through the microphone of the BT earpiece but not received through its receiver.

Scan Group Number Display in Gateway Mode

This release allows the gateway to forward a TMO call from an attached TMO scan group and then displays the information of the scanned group during the call.



Note: This enhancement is available only for MT680 Plus.

Broadcast More Channel Numbers

This release allows the terminal to broadcast up to 30 channel numbers.

2.3 Application

2.3.1 New Features

N/A.

2.3.2 Enhancements

CPS

This release provides the following enhancements for the CPS:

- The CPS of this release is compatible with firmware version R5.0 for high memory.
- The CPS of this release allows password setting for opening and saving the configuration file.

2.4 Paid Features

2.4.1 Differences Among MT680 Plus (B/E/S)

MT680 Plus comes with hardware versions B, E, and S. The following table lists the feature differences among the three versions.

Item	MT680 Plus (B)	MT680 Plus (E)	MT680 Plus (S)
BT	-	-	√
Gateway	-	-	License
GPS	-	√	√
E2EE	-	License	√

PT580H Plus comes with hardware versions B, E, and S. The following table lists the feature differences

among the three versions.

Item	PT580H Plus (B)	PT580H Plus (E)	PT580H Plus (S)
BT	-	-	✓
Man Down	-	-	✓
GPS	-	✓	✓
RTC	-	✓	✓
E2EE	-	License	✓



Note: "License" indicates that the feature can be enabled by a license. "✓" indicates that the feature is supported. "-" indicates that the feature is not supported.

2.4.2 Paid Software Features

The following software features require a purchased license:

1. DM-REP Mode
2. Work Order
3. MSPD
4. OTAP
5. Short Data Template
6. Route Trace
7. Drive Test
8. E2EE

3. Important Notes

This chapter describes the important instructions on the terminal firmware upgrade or programming via the CPS.


3.1 Firmware


 **Warning:** Please carefully read the following information and [2 What's New in This Release](#)

before upgrade, so as to check whether the upgrade is necessary.

DO NOT try any rollback operation by your own; otherwise, you will assume the entire liability for any loss or damage arising out of such operation. Contact the Company for rollback if required.

- PT580H Plus and Z1p can be upgraded to R7.6 from R6.2, R6.2.1, R7.0, R7.1, R7.1.1, or R7.5 only.
- MT680 Plus can be upgraded to R7.6 from R7.0.1, R7.1, R7.1.1, or R7.5 only.
- PT790Ex can be upgraded to R7.6 from R7.0.3, R7.1, R7.1.1, or R7.5 only.


 **Caution:** The language package must be upgraded along with firmware upgrade; otherwise, the terminal may fail to operate properly.

 **Caution:** The firmware version described in this document is compatible only with the CPS of this release. For detailed version information, see [1 Product Information](#). After being upgraded, the terminals must be programmed again via the CPS in this release.

For details, refer to *TETRA Terminal Upgrade Guide_R7.6_V1.0*.


Consult the sales person or the Company for more information about version compatibility and further release plan.

3.2 Hardware

 **Caution:** The firmware version in this release is applicable to PT580H Plus, PT580H Plus UL913,Z1p, PT790Ex, and MT680 Plus only.

3.3 Application

 **Caution:** The CPS of this release is compatible only with firmware versions from R5.0 to R7.6.

 **Caution:** The CPS of this release does not support the configuration file (.hyt) created using the CPS of V1.xx.xx.xxx. Please read the existing data from the terminal first and save the data into a new configuration file (.tcf).

3.4 Accessory

N/A.

4. Features in History Version

4.1 New Features

Version	New Features
R3.0	Radio User Assignment (RUA)
	Ambience Listening (AL)
	Multi-language Support Display: English, Simplified Chinese, French, Spanish, and Catalan Input: English and Simplified Chinese
	PSTN Gateway
	Long SDS
	Flash SDS
	Instant Status Message
	DMO: The user can check the current working frequency in DMO.
	Microphone Gain
	Ignition Sense (for mobile terminal only)
R4.0	End-to-End Encryption (E2EE)
	Gateway/Repeater Call
	Multi-language Support Input: Russian and Farsi
	Customized Alert Tone
	Fallback Mode
	Accessory Compatibility (for mobile terminal only): 1. CallBack (Pin 23) 2. Emergency Alarm (Pin 14) 3. AT Command (Pin 20, Pin 21, and Pin 22) 4. Independent Audio Output (Pin 25) 5. Ignition Sense (Pin 26)
	Press PTT to Talk in Duplex Call
R5.0	Transmit Inhibit (TxI)
	Energy-saving Mode
	Seamless Cell Re-selection
	Multi-Network in DMO
	Group Change Voice Broadcast
	Emergency Silent Mode
	Individual Contacts Limitation
	Callout
	JAVA Platform 2.0 (applicable to terminals with V2.xx.xx.xxx firmware only)

Version	New Features
	Multi-slot for PD
	Positioning Protocol: NMEA
	Lone Worker
	Input Method Editor (IME)
	Multi-language Support Display: Traditional Chinese, Arabic, Italian, and Portuguese. Input: Arabic
	Feature Flags: The features can be enabled or disabled via the CPS.
R5.1	IO Interface Control via Status Message (for mobile terminal only)
R5.2	Power-off Delay Timer programmable (for mobile terminal only)
R5.5	Over Speed Alarm
R5.7	Mute Mode (for mobile terminal only)
	IO Toggle Level (for mobile terminal only)
	Fast Switch Group Folder
	Multi-language Support Display: Dutch
R5.7.1	Subscriber Class
	Indoor Positioning
R6.0	Over the Air Programming (OTAP)
	Telemetry (for mobile terminal only)
	Circuit Mode Data
	Dialing Scheme
	WAP Browser
	Noise Suppression
	AIE (DMO)
	PD Interruption by Call Services
	Remote Control via Status Msg
	Duplex Spacing Customization (TMO)
	Call Authorization by Dispatcher (CAD)
	Over Speed Alarm
	Location Report via LIP (DMO)
	Multi-language Support Display: Korean and German Input: Korean
	Short Message via Gateway (DMO)
	Call Default Group (PTT Work Mode)
	Call Privilege Control
	Group Folder Fast Switch
	Scan Group Member Customization
	Fast Status Forward

Version	New Features
	Send Status Message as Text Message (TMO)
	Back-to-Back Function (for mobile terminal only)
	Drive Test
	Feature Flags
R6.2/R6.2.1	DMO Repeater
	Handsfree in Duplex Call
R7.0	BT Application
	Gateway and Repeater Auto Connection
	Covert Mode (for Z1p only)
	GPIO (for MT680 Plus only)
	Audio Path Selection
	Handsfree/Receiver Mode
	Mic On/Off
	GLONASS (for Z1p and PT580H Plus only)
R7.0.2	DMO Repeater (for MT680 Plus only)
	DMO Gateway (for MT680 Plus only)
	GLONASS (for MT680 Plus only)
R7.0.3	One-touch Group Switch
	Registration via AIE Mechanism
	Battery Check (for PT790Ex only)
R7.1	Multi-language Support
	Display: Polish
	Work Order
	Notification Talkgroup
	Home Group
	Virtual Channel Reservation
	Sending GPS Data via SDS
	BD (for PT580H Plus and MT680 Plus Only)
	Transmitter Circuit Protection (for PT790Ex Only)
	Paid Feature Controller (PFC)
	Multi-Language Input (for CPS only)
	Customization (for CPS only)
	Multi-terminal Programming (for CPS only)
	Batch Creation and Duplication (for CPS only)
	Parameter Comparison (for CPS only)
	Parameter Search (for CPS only)
	Default Data Restore (for CPS only)
	User Role Management (for KMA only)
	Programming Data Backup (for Upgrade Kit only)
	Multi-terminal Upgrade (for Upgrade Kit only)

Version	New Features
R7.5	Short Data Template
	Favorite Folder
	Emergency Protect Mode
	Reject Register on Fallback
	RMP
	SDS Consumed Report
R7.6	Route Trace
	Group Number Dial
	Group Call Detector

4.2 Enhancements

Version	Enhancement
R3.0	GPS (LIP): 1. Query location information of the caller during a call. 2. Add a new icon of GPS.
	AT Command: Change the baud rate by AT command.
	Late Entry Delay: Configure the interval value for late entry delay via the CPS.
	Emergency Service: In emergency, the terminal user can send the emergency status message to the default group.
	Date Display: The date format has been changed to "MM/DD/YY" in English version.
	Alert Tone: 1. Add a CPS configuration option for switching on/off alert tone for out of service or successful registration. 2. Unify the alert tone for limited service. 3. Add an alert tone to indicate a normal priority terminal trying to pre-empt the higher priority party.
	Group Management: The terminal user can switch talkgroups by rotating the Group Selector knob.
	Audio Gain Control: Decrease the starting time from 2.22 ms to 1.09 ms.
R4.0	Group Management: 1. Shortcut to confirming default group; 2. Auto-select DGNA; 3. Attach maintenance for default group when the scan feature is disabled for a folder.

Version	Enhancement
	<p>Positioning (LIP):</p> <ol style="list-style-type: none"> 1.Trigger command in LIP; 2.Time synchronization <p>Emergency Call with Pre-emptive Priority 3</p> <p>Last Frequency List</p> <p>Customizable Enable/Disable</p> <p>Min Call Volume</p> <p>Duplex Mic Gain (for portable terminal only)</p> <p>DTMF in Inter-network</p> <p>Answering a Duplex Call by Pressing the PTT Key</p> <p>TX Power:</p> <p>The TX power can be set to 1.8 W via the CPS.</p> <p>Display Rate:</p> <p>Optimize the screen refresh rate.</p>
R5.0	<p>Data Specifications:</p> <p>The terminal supports more data with large-capacity hardware.</p> <p>Group Management:</p> <ol style="list-style-type: none"> 1.Scan single group; 2.Shortcut to scan on/off; 3.Group operation during a call; 4.GSSI invisible; 5.Predefined default group <p>PEI:</p> <ol style="list-style-type: none"> 1. PhoneBook operation; 2. Group operation; 3. Front and rear PEI simultaneous work (for mobile terminal only); 4. PEI available in common mode <p>DMO Customized Channel Reservation</p> <p>Fallback Mode Indication</p> <p>Current Folder Name Available in Home Screen Display</p> <p>TMO Individual/Group Call Priority</p> <p>Sending Long SDS</p> <p>Half-duplex PABX/PSTN Call</p> <p>Mode Switch During a Call</p> <p>Broadcast Call Preferred</p>
R5.5	Power-off Delay Timer programmable (for mobile terminal only)
R5.7.1	Method for Sending SDS
R5.7.2	Group Scan
	Flash Message Display Timer
	Overwrite Policy (Buffer Full)

Version	Enhancement
R5.7.3	Data Backup
R5.7.6	Saving the Configuration Data
R6.0	Group Folder Visibility
	Group Scan Indication
	Location Report
	E2EE Key Supporting 256 Bits
	New Shortcut Key (numeric 0)
	Group Name Display
	Shortcut Key Availability during a Call
	Short Message Character Count
	Key Availability in Keypad Lock Mode
	Programmable Interval for Out of Service Alert Tone
	Full-duplex Call Volume
	Accessory Compatibility (for mobile terminal only)
	Emergency Cycle in DMO
R7.0	Noise Suppression
	Menu Structure and Style
	Group Management
	DMO Repeater (for Z1p and PT580H Plus only)
	E2EE for Message Services
	Shortcut
R7.0.3	RSSI Range
R7.1	Sending SDS to Short ISSI
	Group Property Strategy for DGNA
	Allowing Dispatcher to View Scan Groups
	Reusing the Last Scan On/Off Status after Restart
	Initial Out of Service Timer
	Ambience Listening: 1. Pseudo power-off; 2. Optimized feature restrictions
	Man Down Pre-alert Timer (for PT580H Plus, PT790Ex, and Z1p only)
	PIN Code: Providing more services during PIN protection.
	TEA Protection: 1. Key encryption for storage and transmission; 2. Key erase via MMI menu; 3. TEA obtaining
	Power-On/Off: 1. Accelerated power-on speed; 2. Optimized power-on indication;

Version	Enhancement
	3. Accelerated power-off speed
	Backlight: 1. One-touch control; 2. LCD light always on
	Configurable Contents on Home Screen
	Predictive Input Method
	Configurable Broadcasting Language Variants for Group Switch
	Configurable Default Input Mode: The default input mode can be configured via the CPS.
	Noise Suppression: The Noise Suppression feature can be enabled or disabled via MMI menu.
	Third-party Development: 1. JNI (SDS, GPS, and signal interfaces); 2. SIM card-based encryption; 3. OTAP
	DMO Gateway (for MT680 Plus only): 1. Forwarding voices and data encrypted in E2EE manner; 2. Supporting communication between non-AIE DMO terminal and AIE TMO terminal
	GPIO Application by Third-party (for MT680 Plus only)
	Configurable Time Length for Talkgroup Selection (for MT680 Plus only)
	Speaker Switching Rule (for MT680 Plus only)
R7.1.1	DMO Gateway supports individual call forwarding.
	Group processing strategy for DGNA
	Enhanced group capacity (16777215 GSSIs)
R7.5	GPS: Sending a status message with location information; Configuring at most six control centers to which the Location Information Protocol (LIP) message is sent
	Enabling or disabling the EscKey Switch LouderSpk or Receiver feature through the CPS
	Emergency Call: The following parameters can be configured through the CPS: Press and Hold to End the Call Max. Tx Time Emergency Private Call Type Emergency Private Call Mode
	Alert Tones: Adding the network connect tone; Changing the maximum interval for playing the out of service tone from 1 minute to 2 minutes
	Optimizing the Enable/Disable feature
	Drive Test R2.0
	Improving battery life

Version	Enhancement
	AT Command
R7.6	AIE Supported by Repeater
	Call Initiation and Participation by Repeater
	Profile Customization
	DGNA in Gateway Mode
	Broadcast Call Initiation Through Menu
	Home Screen Display
	Configuration File Password
	Display RSSI in Calling
	Folder Creating and Renaming Through Menu
	Scan Group Priority Changing Through Menu
	CPS Compatible with R5.0
	Predictive Input Method
	Only Use Mic of BT Earpiece
	Scan Group Number Display in Gateway Mode
	Broadcast More Channel Numbers

5. Fixed Problems

The following table lists the fixed problems.

Version	Fixed Problems	Terminal Model
R3.0	The terminal may break down due to RAM overflow.	PT580H/MT680
	The terminal may fail to initiate a call occasionally.	PT580H/MT680
	Errors may occur to the volume when the terminal initiates a half-duplex call with hook signaling.	PT580H/MT680
	The terminal takes a long time to register.	PT580H/MT680
	The terminal sends an SDS successfully with a "Failure" prompt.	PT580H/MT680
	Problems may occur while the terminal sends an emergency status message.	PT580H/MT680
	The terminal fails to switch the group when the terminal user rotates the Group Selector knob for the first time.	PT580H/MT680
	The terminal fails to send an ACK before being killed by the dispatch station.	PT580H/MT680
R4.0	In TMO, the terminal may fail to receive more flash SDSs if it happens to receive a duplex call with hook signaling while reading a flash SDS.	PT580H/MT680
R5.0	The quality of output audio signal is low when there is ambience noise.	PT580H/MT680
	The voice quality is optimized.	PT580H/MT680
	The data storage strategy is improved.	PT580H/MT680
R5.7.1	Some contacts or talkgroups may get lost.	PT580H/MT680
	The terminal may fail to power on next time with a prompt "Language Setting Error" displayed.	PT580H/MT680
	There may be audio distortion.	PT580H/MT680
	The terminal may send incorrect GPS data when the dispatch station controls the time interval at which GPS data is sent.	PT580H/MT680
	The terminal may send incorrect GPS data when it moves horizontally.	PT580H/MT680
	Status icons may be misplaced on the status bar when the terminal with GPS antenna is turned on.	PT580H/MT680
	The terminal may fail to register with a base station with strong signal after it is out of service due to weak RSSI.	PT580H/MT680
	The terminal may fail to set the previous default group as the default group after the dynamic group is de-assigned.	PT580H/MT680
	The methods of dynamic group assignment and de-assignment are optimized.	PT580H/MT680
	The interval at which the Talk Around tone sounds is optimized	PT580H/MT680

Version	Fixed Problems	Terminal Model
	to 30 seconds.	
	Optimize the scan procedure.	PT580H/MT680
R6.0	Adjust the interval for refreshing the cell signal to 3 seconds.	PT580H/MT680
	Database: 1. Data may be lost upon power failure. 2. Data cannot be read from the terminal using an upgraded CPS.	PT580H/MT680
	Provide read and write protection to the Flash and file system.	PT580H/MT680
	Pop sound may appear at the receiving terminal when the call is set up.	PT580H/MT680
	The status bar may become garbled when the GPS antenna is installed onto the terminal, and the terminal may break down when opening the GPS_DATA log.	PT580H/MT680
	Disable the Noise Suppression feature to increase Mic gain when the terminal is under ambience listening.	PT580H/MT680
R6.2/R6.2.1	Optimize the WAP reconnection policy and WAP access speed.	PT580H Plus/Z1p
R7.0	Data disorder may occur after OTAP timed programming.	PT580H Plus /MT680 Plus/Z1p
	The terminal cannot correctly decrypt the DMO AIE+E2EE message received from the repeater.	PT580H Plus /MT680 Plus/Z1p
R7.1	A call cannot be set up when the terminal is in close proximity to the antenna of the receiving terminal.	Z1p
R7.1.1	The all call GSSI (16777215) can be programmed into the terminal by using the CPS.	PT580H Plus /MT680 Plus/Z1p
R7.5	Improve the deregistration process during a group call.	PT580H Plus /MT680 Plus/Z1p
	Reply to SDS messages on networks that do not require the MNI in replies even though it is telling the radios to do so	PT580H Plus /MT680 Plus/Z1p
R7.6	The radio emits no alert tone for dynamic group number assignment and de-assignment.	PT580H Plus /MT680 Plus/Z1p
	Auto switch encryption	PT580H Plus /MT680 Plus/Z1p

6. FAQ

Q: Why does the terminal fail to initiate the call or become malfunctioned on the call screen after initiating a call?

A: These phenomena occur due to weak RSSI. The terminal will be out of service when the signal strength is lower than -100 dBm.



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