



GE MDS **PRODUCT RELEASE NOTE**

RELEASE NOTE: TD220MAX Firmware Version 1.2.17.1
RELEASE DATE: August 5, 2020

FIRMWARE

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MDS TD220MAX FIRMWARE – VERSION 1.2.17.1

Overview

This section describes Software/Firmware updates for the MDS TD220MAX product.

Product: MDS TD220MAX
Version: 1.2.17.1
Release Date: 05-AUG-2020

Package Element	Version
Bootloader	0.0.2
Kernel	0.0.5
RootFS	1.2.17.1* CM ACSES 4.13.0*
MCU	1.1.1
DSP	1.1.4

* = updated

Important Notes:

- **This release note lists changes since the most recent production release, 1.2.16.**
- **Releases 1.2.16 and 1.2.17.1 have less receive sensitivity compared to 1.2.15 under the following conditions: mobile receiving below 220 MHz when the base System Configuration, Send OTA Beacon setting is 'enabled'.**

New Features

1. Integrate Wabtec ACSES CM release 4.13.0 for use when authorized.
2. Add 'GPS Update RTC' setting to the GPS Configuration menu, cfgscript, and SNMP. When the setting is enabled, the RTC syncs when GPS syncs at power-on. The event log will record 'Date/Time from Server (GPS)'.
3. Add 'PTP Update RTC' setting to the PTP Configuration menu, cfgscript, and SNMP. When the setting is enabled, the RTC syncs when PTP syncs to master with a step. The event log will record 'Date/Time from Server (PTP)'.
4. Add current RTC time and 'Sync RTC to Date and Time' menu item to the Device Information menu. The event log will record 'Date/Time from Server (menu)' when the item is selected.
5. Check RTC battery at bootup. If the battery has failed, the event log will record 'RTC Battery Failed' and the Device Information menu will display "** BATTERY FAILED * RTC will not stay up-to-date".
6. Add integrator commands AUTH (with options CLEAR and KEY), CFGSCRIPT, and REPROGRAM for provisioning.
7. Log 'Password Changed' event when a password change is made.

Changes to Existing Features

1. Change bootup sequence to sync initial system time from the RTC without incurring the three-minute timeout when the RTC battery is dead.
2. Allow Maintenance, Ping Utility to ping 255.255.255.255. Previous builds give similar results by pinging 224.0.0.1.

3. Remove Maintenance, Radio Test, Force Key RSSI field.
4. Disable the test when any Maintenance, Radio Test menu setting is changed.

Defect Fixes

1. Retain all Maintenance, Radio Test statistics onscreen when the test is disabled.
2. Clear the Communications Manager, Manage File prompt if the user <ESC>s (Link, Rename) or declines by entering 'N' (Link overwrite).
3. Prevent double percent sign when reprogramming status is queried with 'snmpget td220maxReprogMessage.0'.

Known Errata

1. Receive sensitivity is degraded when the base System Configuration, Send OTA Beacon setting is 'enabled'.

Operational Notes and Limitations

1. Compatibility with TD220, TD220PLUS, TD220X
 - This firmware is for use on TD220MAX units only.
 - TD220MAX is not over-the-air compatible with TD220 or TD220PLUS products.
 - TD220MAX releases 1.2.5 and above are over-the-air compatible with TD220X releases 2.0.16 and higher.
2. After upgrading, the Starting Information screen may show Device Status "Initializing" for up to five minutes.
3. The ethernet port operates in 10Mb half-duplex mode.