



# GE MDS **PRODUCT RELEASE NOTE**

RELEASE NOTE: TD220MAX Firmware Version 1.2.20  
RELEASE DATE: August 25, 2020

**FIRMWARE**

©2020 GE MDS LLC, 175 Science Parkway, Rochester, NY 14620 USA  
Phone +1 (585) 242-9600, FAX +1 (585) 242-9620, Web: www.gemds.com

## **MDS TD220MAX FIRMWARE – VERSION 1.2.20**

### **Overview**

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

Product: MDS TD220MAX  
Version: 1.2.20  
Release Date: 25-AUG-2020

Package Element	Version
Bootloader	0.0.2
Kernel	0.0.5
RootFS	1.2.20* CM ACSES 4.13.0
MCU	1.1.2*
DSP	1.1.4

\* = updated

### **Important Notes:**

- **This release note lists changes since the most recent production release, 1.2.17.1.**
- **Release file TDM-krmd-1\_2\_20.mpk SHA256 sum:  
3d33e1a4bed061cbde1622719fea14a2714727f91222860b687824fe9a31133f**

### **New Features**

1. Add 'Running' event to log the firmware version, timing source configuration, and CM authorization at bootup.
2. Add 'Telnet Port' setting to the Security Configuration menu, cfgscript, and SNMP.

### **Changes to Existing Features**

1. 'Telnet User' login events combine the originating address and user in one event log entry and made persistent.
2. Change Maintenance, Radio Test menu to auto-refresh only when a test is running. Add Temperature field to the Radio Test, Force Key screen to monitor during tests of 'PA Temperature Too HOT'.
3. Restrict guest logins from performing factory defaults or syncing the RTC. Clarify it's the RTC value that updates by changing Device Information menu wording to 'Sync RTC from Date and Time'.

### **Defect Fixes**

1. MCU upgraded from 1.1.1 to 1.1.2 (as with any MCU change, first power on will take a few minutes to initialize)
  - a. Restore RF sensitivity by reverting the part of MCU 1.1.1 intended to process only one LCP packet at a time.
2. Update Statistics, Wireless Packet Statistics last frequency and power after all drop checks, including duty cycle.
3. Prevent 'PA Temperature Too HOT' false alarms by confirming over a 1-second interval before logging the event.

4. Prevent misconfiguration leading to 'PA Temperature Too HOT' by initializing Duty Cycle Window and Duty Cycle Transmit Limit from Duty Cycle Power Limit at power-on.
5. Allow Maintenance, Radio Test, Force Key, TX Key Timeout (> 2W) values greater than 255. Change the max value from 999 to 900 seconds (15 minutes).
6. Correct the GPS Configuration, GPS Update RTC setting notifier so changes take effect without rebooting.
7. Show a full 'Please Wait' screen when the user selects to reboot on changing Timing Source or STFP Epoch Size.
8. Correct support bundle parameters to retrieve Tx Payloads rather than Rx Payloads twice.
9. Prevent unrecognized GPS interface at bootup by replacing subprocesses with direct functions.

#### **Known Errata**

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1. None

#### **Operational Notes and Limitations**

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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.