



GE MDS *PRODUCT RELEASE NOTE*

RELEASE NOTE: TD220MAX Firmware Version 1.2.29
RELEASE DATE: June 15, 2022

FIRMWARE

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MDS TD220MAX FIRMWARE – VERSION 1.2.29

Overview

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

Product: MDS TD220MAX
Version: 1.2.29
Release Date: 15-JUN-2022

Package Element	Version
Bootloader	0.0.2
Kernel	0.0.5
RootFS	1.2.29* CM ACSES 4.15.0
MCU	1.1.3
DSP	1.1.5

* = updated

Important Notes:

- This release note lists changes since the most recent production release, 1.2.28.
- Release file TDM-krmd-1_2_29.mpk SHA256 sum:
7372606c2741a10b07d9e5d501053ffdc3f84b6bb7c96e814dc8a08d459b1cbf

New Features

1. Add settings Log Resource Low, CPU Idle Limit, and Mem Free Limit to menu, cfgscript, and SNMP to explicitly control resource logging. Rename Statistics / Logging to Performance Information and add a Resource Logging menu for the settings. Record the state of resource logging and the limits in the event log at power on.
2. Add settings PTP Status Update, PTP Sync Discard, and PTP Process Priority to menu, cfgscript, and SNMP to reduce PTP CPU usage. Add PTP Configuration menu PTP Performance for the settings.
3. Add Radio Test, Force Key, TX Key Timeout setting to menu, cfgscript, and SNMP. Make the timeout optional since the hardware thermal shutdown protects the radio hardware. A setting of zero disables the timeout. A non-zero setting employs the timeout regardless of Output Power setting (previously an Output Power > 2W used a 20-second timeout). When the timeout is zero or a test other than Force Key is used, the Radio Test screen now shows Elapsed Time. If thermal shutdown occurs, the 'PA Temperature Too HOT' alarm is displayed on the Radio Test screen. The test continues to run but the hardware outputs minimal power. When the unit cools, the alarm clears.
NOTE: Previous releases have code that checks the force key timeout is > zero and if not, resets it to 20 seconds. Rebooting to an earlier release will set the timeout to 20 seconds if you've set it to zero with this release.

Changes to Existing Features

1. Remove the Radio Test, Force Key, Temperature field introduced in release 1.2.20 since the sensor being read isn't used for thermal shutdown.
2. Change the Current Alarms screen to list events in reverse chronological order, matching the event log.

3. Allow <Backspace> to cycle booleans as it does for enums.
4. Add Wireless Packet Statistics, Tx Last Age (introduced in release 1.2.23) to project-specific support bundle data.

Defect Fixes

1. Set modem power for Radio Test menu to ensure the displayed Output Power setting is used. Without this, the test uses the power value from the most recent STFP message transmitted.
2. Resolve GPS time sync issue when RTC battery is dead by defaulting the system time to 2015 rather than 1920.
3. Prevent cleared PTP alarms showing in the Current Alarms screen.
4. Retry once if an attempt to reboot fails.
5. Prevent 'Invalid Choice' message when Reprogramming, Image Verify fails.

Known Errata

1. None

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.