

Tempo T2 Release Notes

Release Date: July 2019



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Release Overview

Tempo T2 Release

This release offers a software feature enhancement on Tempo. New options are associated with this enhancement; PHM 20 (Datacom), PHM-21 (IEEE C37.94), PHM-22 (G703 / E0) and PHM-23 (VF).

The software incorporates the following optioned feature in the T2 release:

- Adds compatibility with Pluggable Hardware Modules PHM 20 (Datacom), PHM-21 (IEEE C37.94), PHM-22 (G703 / E0) and PHM-23 (VF).
- Includes support for the built-in RJ-48 REF IN/OUT port for miscellaneous clock reference input and output.
- Adds compatibility with a new Ethernet PHY for electrical 10/100/1000 Mb and optical 1/10 Gb/s interfaces.
- Adds support for new improved OCXO oscillators.
- Adds support for non-SGMII 100BASE-FX transceivers in newer units.
- Adds support for TCP throughput test RFC 6349, including dual ended tests and multiple streams.
- New setting for RFC 2544 latency test: “Latency throughput (%)”.
- Adds hybrid PTP addressing to the existing unicast and multicast modes.
- Increases resolution of PTP MTIE and TDEV tests to 100 ps.
- Includes new ePRTC and ePRC MTIE and TDEV masks.
- Adds support for 5 MHz and 1PP2S clock reference inputs, outputs and test signals.
- Adds Min.TIE result to the wander analysis panel.
- Adds VF frequency sweep and noise tests.
- Adds support for V.11 / X.21 asynchronous interface.
- Includes new performance metrics for Datacom asynchronous interface.
- Adds a service disruption time measurement for G.703/E0, E1, T1, Datacom and C37.94 interfaces.
- Includes IEEE C37.94 pass-through and loopback with the ability to generate bit errors and delay.
- Adds jitter and wander generation and analysis for IEEE C37.94 interfaces.
- Includes compatibility with G.703 contra directional and centralized interfaces.
- Improved event logger with higher resolution and more flexible data scaling.
- Improvements in the file manager with a new quota management system.
- Miscellaneous GUI improvements.

- Adds compatibility with the snmp-mib-2019-02 package.
- Adds Support for Portuguese language.

Upgrading the Unit

The test unit software can be upgraded with the help of a USB memory stick. Before proceeding with the upgrade, copy the Calnex software to the root directory in the memory stick. The file name of the upgrade package must not be modified. The USB must have a FAT32 file system.

Once the USB memory stick is ready. Follow this procedure to install the new software:

1. Switch the unit off. Insert USB memory stick
2. Press the *Power* button and keep the button pressed until you see the *Power* LED to start blinking.
3. Release the *Power* button. You will hear a beep and the Calnex Software Installer will be loaded and executed. An informative panel will display the Tempo software version number found in the storage device.
4. Press *Continue* to continue with the installation process or *Cancel* to finish.
5. Select *Install* or *Upgrade*. *Install* regenerates all the software in the unit even if it is up to date. *Upgrade* regenerates only the software that has changed since the last upgrade. Use *Install* if you need to recover the unit after operation failure due to corrupted software. Use *Upgrade* otherwise you can also cancel the process at this point by pressing *Cancel*.
6. Confirm your previous selection by pressing *Continue* or cancel with *Cancel*.
7. Wait for the installation process to finish.
Note: The full process may take a few minutes.
Note: Do not disconnect the unit or remove the USB memory stick during installation.
8. Press *Continue* to close the Software Installer and finish the installation process. The unit will be automatically restarted. The new software will be loaded.

Calnex Solutions Ltd
Oracle Campus
Linlithgow
West Lothian EH49 7LR
United Kingdom

t: +44 (0) 1506 671 416
e: info@calnexsol.com

calnexsol.com