

## **CX380C Firmware/Software Updates**

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**Software version 01.02.0016****June 17, 2024****Release Scope: *General Availability*****Cable Modem FW:** 0.10.13-r.080323**SLM FW:** 5.13.0, **SLM FPGA:** 21.00**Fiber Tools:** 02.00.006023**New features and improvements:**

1. Tilt: restores fast measurement response.
2. Cable Modem:
  - Implements enhancements for improved IPv6 compatibility.
  - Now supports Ping Test for IPv6 addresses.
  - Added “Renew Client” button to IP information page.
  - Added “Diagnostic” feature for VeTest results.
3. Spectrum Analyzer: fixes an issue with Max/Min Hold and TP Compensation.

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**Software version 01.02.0014****February 9, 2024****Release Scope: *General Availability*****Cable Modem FW:** 0.10.13-r.080323**SLM FW:** 5.12.12, **SLM FPGA:** 21.00**Fiber Tools:** 02.00.006023**New features and improvements:**

1. Cable Modem:
  - The Graphs tab now supports “US Total Transmit Level”, which displays the Total Transmitted Power Level of all Upstream Channels
  - Now supports the “US OFDMA Ref. BW” setting, which configures the transmitted OFDMA level reporting to be based on either a 1.6 MHz referenced bandwidth (default) or a 6.4 MHz referenced bandwidth.
2. The VeTest Speedometer now displays Line Rate MAX.
3. Tilt: fixes an intermittent crash issue when switching between Analog and Digital modes.
4. TDR: has new slider function buttons.
5. Ethernet Tools V-Test: improved test report.
6. Now supports software option enabling in the field via user activation code.

**Software version 01.02.0011****August 17, 2023****Release Scope: *General Availability*****Cable Modem FW:**0.10.13-r.080323**SLM FW:** 5.12.5, **SLM FPGA:** 21.00**Fiber Tools:** 02.00.005010**New features and improvements:**

1. VeCheck:
  - During the initial progress scan, the shortcut buttons are now all active.
  - For Analog Channels: Discover mode now supports Audio 2 level.
2. Resolves not being able to detect an Analog channel situated between two OFDM channels.
3. VeTest now supports Speedometer graphics, in both Cable Modem and Ethernet Tools.
4. Spectrum Analyzer:
  - New default setting for Signal Type is 'Burst'.
  - Split View: now restores to the last used mode, when returning to normal Spectrum.
5. SWP-BOX
  - Resolves an issue where the RP Generator may not initialize properly when launched within SWP-BOX menus.
  - For Return Sweep mode: now displays the Return Com Frequency & Level being used.
6. Tilt: resolves an issue for incorrect levels in some cases when lower frequency channels are configured.
7. TDR:
  - Adds additional Cable Types for easy Vp selection
  - Resolves a trace display issue for High Contrast Mode
8. Cable Modem: For saved results, ensures capturing the latest levels for all tabs when the user presses the save key.
9. General: improvements done to prevent a rare time clock reset.
10. FCC POP: resolves an issue with the HUM measurement.
11. Single Channel: resolves a crash issue when the user switches channels while in Impairment mode.
12. Location Profile: now provides separate pass/fail thresholds for Upstream channel types OFDMA and ATDMA (SC-QAM).
13. EZ Remote: now supported via a Cable Modem connection.

**Software version 01.02.0010****January 31, 2023****Release Scope: *General Availability*****Cable Modem FW:**0.10.2.091522**SLM FW:** 5.6.0, **SLM FPGA:** 20.00**Fiber Tools:** 02.00.005010**New features and improvements:**

1. Now supports VeGrade™ QAM signal quality measurement in Single Channel.
2. Now supports QPSK channels in Single Channel and VeCheck.
3. When R-Server Workforce enables job management, CX380C's Advanced Savings fields will now preserve the user's previous inputs and not auto clear.
4. Now supports Spanish language.
5. SWP-BOX:
  - Now supports Dual Sweep mode with SWP-BOX
  - Now supports an 'R-Server' shortcut access button.
6. Sweep: all modes now support a Delta Level measurement for Vertical Markers.
7. VeCheck:
  - Discover Mode: improved detection of OFDM channels and the primary DOCSIS channel for some systems.
  - For an OFDM only system, the 'Connect CM' shortcut button is now active, allowing for a direct connection as a cable modem using the PLC channel.
8. Spectrum Analysis: resolves an intermittent crash issue when switching to Expert mode.

**Software version 01.02.0008****September 19, 2022****Release Scope: *General Availability*****Cable Modem FW:**0.9.30.062922**SLM FW:** 5.0.4, **SLM FPGA:** 19.00**Fiber Tools:** 02.00.005010**New features and improvements:**

1. Now supports an additional hardware revision type for SLM.

**Software version 01.02.0006****July 15, 2022****Release Scope: General Availability****Cable Modem FW:**0.9.30.062922**SLM FW:** 4.47.2, **SLM FPGA:** 19.00**Fiber Tools:** 02.00.005010**New features and improvements:**

1. Cable Modem:
  - Adds new OFDMA In Channel Frequency Response measurement.
  - Now supports Port 8080 block, which enables the cable modem to get online in some systems.
2. SWP-BOX: now supports Return Path Sweep measurements with SWP-BOX. *Requires optional Z66-00-198 Sweep Generator.*
3. Spectrum Analysis: the Profile feature now saves the user's marker positions.
4. RP Tilt/Gen: resolves a level issue found in Ver 01.02.0005 for RP Tilt measurements.
5. Single Channel: resolves an issue found in Ver 01.02.0005 for Analog Channel, Gated measurements.
6. VeCheck: improves performance for Annex A EuroDOCSIS channel detection.
7. CaLan Sweep:
  - Improves sync issues for sweep systems using a communication frequency < 951 MHz.
  - Increased Return Sweep Transmit rate from 800  $\mu$ s to 50  $\mu$ s.
8. Fiber Scope: general improvements for supporting the DI-3000 Fiber Inspection Microscope, including WiFi auto-connect.
9. FCC POP: for 24 Hour mode, resolves an issue found in Ver 01.02.0005 which prevented completion of the measurement.

**Software version 01.02.0005****April 29, 2022****Release Scope: *General Availability*****Cable Modem FW:**0.9.23-c.030422**SLM FW:** 4.46.6, **SLM FPGA:** 17.00**Fiber Tools:** 02.00.004977**New features and improvements:**

1. Tilt: enhances response time.
2. Extended Sweep: general user interface improvements.
  - Optimizes default settings for SWP-BOX applications.
  - Improves color scheme for sweep traces displayed in High Contrast mode, for better visibility.
  - Uploaded In-Service Sweep results in R-Server now have active Marker control.
3. Channel Table: the user can now manually edit a Channel Number directly in the test set.
4. Spectrum Analysis:
  - For Expert mode, 'Couple Off' mode: resolves a bug where the user could not input a negative Reference Level.
  - Improves pop up display selection for Profile and Waveform features
5. Cable Modem:
  - Resolves an incompatibility issue with some DHCP Options.
  - VeTest: general improvements for Upload performance.
6. Updates default settings for optimizing battery performance: power savings mode is enabled and backlight is set to turn off in 1 minute of inactivity while in battery power mode.
7. VxConnect / V-Connect App:
  - Now supports VxConnect (iOS) and V-Connect (Android) version 2.0 and later.
  - Adds geotagging results when paired with VxConnect/V-Connect version 2.0 and later.
8. Now supports up to 32 characters for R-Server profile labels.
9. From this SW Version onwards, the test set will be able to be upgraded via Web Browser.

**Software version 01.02.0004****November 18, 2021****Release Scope: *General Availability*****Cable Modem FW:**0.9.19.090721**SLM FW:** 4.39.4, **SLM FPGA:** 16.00;**New features and improvements:**

1. Spectrum Analysis
  - User may now input the desired frequency for each vertical marker, by tapping on the label box.
  - Resolves issues for Ref Level settings when using dBuV units.
2. VeCheck
  - Improves measurement speed.
  - Now properly displays failed status for BER and MER.
  - Discover Mode improvements for Annex A systems and all channel types.
3. CaLan Sweep
  - Now supports Extended Sweep.
  - General improvements.
4. Ethernet Tools
  - Improves speed to launch the feature.
  - Adds shortcut buttons for R-Server and Web Browser.
5. HFC Cert:
  - When choosing a profile using Discover Channel Scan Type: the selected Channel Table will no longer change.
  - The DOCSIS Mode setting will follow the current selection in Cable Modem
6. RP Gen/Tilt: now supports a special mode enabling access to the Cable Modem and going online, while simultaneously running RP Generation.
7. DMM: properly saves test results for DCV OPM mode.
8. TDR:
  - Improves AFL detection.
  - Adds the Manage Cable feature to add custom Cable Types.
9. Cable Modem
  - Now supports Auto Detection mode for Diplexer.
  - Now supports the Dual MAC option (P/N 499-05-825), supporting an additional CM MAC Address.
10. FCC POP: supported in this GA version; implemented since Ver 01.01.0004-6.
11. From this release onwards, software supports both the current processor and next generation processor.

**Software version 01.01.0004****April 23, 2021****Release Scope: General Availability****Cable Modem FW:**0.9.4.091120**SLM FW:** 4.32.0, **SLM FPGA:** 16.00**New features and improvements:**

1. Spectrum Analysis:
  - Implemented the 'Expert' mode, for advanced users. Added a new 'Spectrum Mode' setting the Setup/Main Menu. When 'Expert' is selected, advanced configuration settings are available.
  - Within Expert Mode: Power bandwidth measurement is supported, configured by the two horizontal Marker positions.
2. Added a new RP Gen/Tilt feature, for Return Path balancing applications, consisting of dual CW signal generation and level measurement. *Requires the Sweep Generator option.*
3. DMM: Added a new 'DCV OPM' mode which displays correlated Optical Power levels in dBm and mW. *Requires the DMM/TDR option.*
4. VeCheck:
  - 'Use Channel Table' scan now supports color designation for DOCSIS channels.
  - 'Use Channel Table' scan now supports shortcut buttons for functions such as Channel Details, Connect CM, and OFDM Analysis.
5. Added the Remove View feature, to access a CX180R RPM probe for far end Spectrum view and also perform a comparison of far end and near end Spectrum.
6. Now supports the V-Connect app, for IP connectivity with an iOS or Android device's portable Wi-Fi hotspot feature.
7. Implemented the Power Savings Mode, with a new setting found under Utilities/Settings/Power. When this mode is set to Enabled, the unit will be operating in battery conservation mode.
8. Added a new HFC Cert feature, the location-based auto test routine for certification tests. *Requires the HIP option.*
9. CaLan Sweep: Added a 'Mid Pilot' configuration and measurement. *Requires the Sweep Generator option.*
10. Improved the VeTest Upload performance for high data rate profiles.
11. HIP Auto Test, *Requires the HIP option:*
  - Resolved issues with Adjacent channel.
  - Resolved issue with the level measurement when MER/BER is disabled.
12. Added Gated CSO/CTB/CCN measurements for Analog channels.

*Note 1: after upgrading your unit, access the Cable Modem to check for any required FW updates. If prompted, process this one time FW update, which must be done before using the test set. Once the update has started, do not interrupt the process or the unit may not work properly thereafter. For such cases, the only remedy is a SW reprogram using the USB update method.*



**Software version 01.00.0003****November 4, 2020****Release Scope: General Availability****Cable Modem FW:** 0.9.4.091120**SLM FW:** 4.25.3, **SLM FPGA:** 11.00**New features and improvements:**

1. Initial release. All major features are released.

*Note 1: After upgrading your unit, access the Cable Modem to check for any required FW updates. If prompted, process this one-time FW update, which must be done before using the test set. Once the update has started, do not interrupt the process or the unit may not work properly thereafter. For such cases, the only remedy is a SW reprogram using the USB update method.*

**References****CX3XX Series****Upgrading the CX3XX Series Software**

Once you have obtained and uncompressed the upgrade file (cx3XX-veex-arm.tar.gz), the software upgrade can be performed as follows:

- Using a FAT-32 file system formatted USB Drive: copy the uncompressed file to the root and then plug it to the CX3XX series' USB port. Turn the power OFF. Press the  and  buttons simultaneously, while powering the unit ON. The three buttons can be released once the confirmation beep is heard.

The unit must be connected to AC/DC charger at all times during the whole upgrade process. DO NOT turn it off at any time; the upgrade process will take several minutes and the unit will reboot itself at the end.

To verify the current software version number installed in the unit, open the **Utilities** section, select **Settings**, and open **About**

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