

Z9-P2 or Z9-PE2 Release Notes

These sections describe the additions, changes, and known limitations in each software version for the ZumLink Z9-P2 or Z9-PE2. The most recent version is listed first.



The latest firmware and software versions and the most recent list of known limitations and workarounds are available on www.freewave.com.

1.1. Version 1.1.2.2 (Initial Release)

Release Date: July 2019 Additions and Changes

- The Web Interface has been re-designed for improved usability on the Z9-P2 or Z9-PE2.
- Support has been added for:

Note: See the **localDiagnostics.SupplyVoltage** parameter for more information.

- VLAN Management
 - Users can only access the device from the VLAN ID.
 - If the VLAN tag is set on a specific Ethernet port, that port cannot be used to access the Management VLAN ID.

Note: See the network.vlanMgmt parameter for additional information.

- Windows® File Explorer now shows 4.4 GB of space instead of the 1.8 GB in previous software versions.
 - This is a result of the ptp directory moving to a new partition.
 - To view space available for applications, login as devuser and run the command df-h.
 - The /persist directory is where applications reside.

Corrections have been implemented for:

- The devuser login password and the sudo password were out of sync when loading a
 new IQ Application Environment when the default password was changed on the existing
 IQ Application Environment. These passwords are now in sync.
- Files uploaded using the Web Interface cannot be deleted by users.
- After updating the systemInfo.rteTemplateVersion parameter, a reboot is necessary to update the sys_info.txt file.

Known Limitations and Workarounds

 Setting date.timeString causes the entire Z9-P2 or Z9-PE2 configuration to revert to saved settings.

- Workaround: Save settings before changing the date.timeString parameter.
- Cannot change the date.timeString once the time is set using NTP.
- The UCD-SNMP-MIB-WP201.txt file is missing definition for dskIndex.
- The Ethernet ports can become unresponsive after changing networks and the network.vlanTagPort1 and/or network.vlanTagPort2 IDs.
 - Workaround: Reboot the Z9-P2 or Z9-PE2 for changes to take effect.
- Setting the network.vlanTagPort1 or network.vlanTagPort2 may affect the connectivity of the other port.
- · Unable to get input voltage via Modbus.
- When using the Web Interface on a computer with Windows® 8 or Windows® 10, clicking
 Cancel does not halt the upload process.
- Files uploaded using the Web Interface drag-n-drop procedure are now write-protected and cannot be deleted.
- When changing and saving the radiosSettings Parameters, the CLI interface may momentarily lock.
- If there is enough space to transfer the update firmware but not enough to facilitate the update, the update fails and the Upgrade Failed LEDs do not function.
 - Workaround: Users should verify the available free space before uploading an update firmware file.
 - At least 2x free space is needed on the Z9-P2 or Z9-PE2 for the firmware update file.
- Users should wait at least 30 seconds after a factory default command is issued before making configuration changes.
- The fields in the NTP parameters are not validated by the system.
 - Workaround: Verify the NTP parameter settings are correct.
- Unable to set the time when the ntpReference parameter =NETWORK TIME SERVER.
- The highest baud rate supported for RS422 and RS485 is 421 kbps.
- In Firmware v1.1.2.2, when the Com1.flowControl or Com2.flowControl parameter is set to hardware, the COM port's flow control does not function.
- Exiting from the CLI may take up to 30 seconds.
- Entering the shortcut text of ModbusTcp and ModbusRtuOverTcp results in a DUPLICATE_PARAMETER Error.
 - **Workaround**: The fully-qualified parameter of modbus.modbusTcp and modbus.modbusRtuOverTcp must be entered.
- When issuing the <u>factoryDefaults=set</u> command, after making changes for any of the **Network** parameters, the user is locked out of the CLI.
 - Workaround: Reboot the Z9-P2 or Z9-PE2 for changes to take effect.
- VSWR reading may be inconsistent between the Network Diagram on the Network
 Diagnostics window and the information reported in the Local Diagnostics window.
- The **File Upload** window shows a 100% upload when the upload file has not completed on **Windows**® 8 and **Windows**® 10 computers.

- **Workaround**: Wait the appropriate amount of time or watch the LEDs to indicate completion of file transfer or use the **Firmware Upgrade Drag and Drop** procedure.
- When setting the parameter network.arpFilterEnabled=true, ARP requests and responses are NOT blocked on VLAN interfaces.
- Rebooting a pair of radios simultaneously when one of the Z9-P2 or Z9-PE2 has the parameter TerminalServerRelay.termserv_relay_mapping=Enabled, the terminal server relay takes up to 6 minutes to become active.
- To update the Network Diagnostics window, refresh the browser to clear the browser cache.
- When the TerminalServerRelay.termserv_relay_mapping parameter is designated and the Com1.flowControl or Com2.flowControl parameter is set to Hardware, the COM port's flow control does not function.
- Significant data is lost between radios when operating in close proximity (3-6 feet) when radioSettings.rfDataRate=RATE 4M.
 - Workarounds:
 - Reduce power on radios when operating in close proximity.
 - Enable the radioSettings.InaBypass.
- When using the USB, the CLI may lock up on units with termserv_relay_mapping parameter enabled.
 - Workarounds:
 - · Re-seat the cable
 - Reconfigure the TerminalServerRelay.termserv_relay_mapping parameter.
- When the TerminalServerRelay.termserv_relay_mapping parameter is in use, the Com1 or Com2.connectionDrops count should be ignored.
- When operating at radioSettings.rfDataRate=RATE_4M and with multiple Repeaters, if a short radioSettings.beaconInterval and a high radioSettings.beaconBurstCount are designated, throughput is very low.
 - Workaround: Use either a longer radioSettings.beaconInterval or a lower radioSettings.beaconBurstCount.
- As Repeaters are chained in the network, round trip delay increases.
 - When issuing pings of large packet sizes at the lower data rates, such as 115.2K, and a
 beaconInterval=TWENTY_FIVE_MS, the latency can increase causing the pings to fail.
 - Workaround: Allow an appropriate delay between pings.

FREEWAVE Recommends: Set the beaconInterval=ONE_HUNDRED_MS or more for optimal throughput when extended Repeater networks are used.

• The localDiagnostics.signalLevel parameter reports a maximum of -42 dBm when the radioSettings.rfDataRate=RATE 1M.

Learn More

For additional product information about the ZumLink Z9-P2 or Z9-PE2, visit http://support.freewave.com/.

For additional assistance, contact a local reseller, or contact FreeWave Technologies, Inc. at 303.381.9200 or 1.866.923.6168, or by email at support@freewave.com.

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The Z9-P2 or Z9-PE2 complies with FCC Part 15 rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference and 2) this device must accept any interference received, including interference that may cause undesired operation.

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