

Software Name: Firmware for PT-7828 Series

Version No.	Build Date No./ Release Date	Supported OS	Apply to Models	New Features/ Enhancements	Bugs Fixed/Changes	Note
v3.9	Build_17122616	N/A	PT-7828 Series	<p><b>New Features:</b></p> <ol style="list-style-type: none"> <li>Added configuration file encryption settings.</li> </ol> <p><b>Enhancements:</b></p> <p>N/A</p>	<p><b>Bugs Fixed:</b></p> <ol style="list-style-type: none"> <li>Stack-based buffer overflow vulnerability.</li> <li>Risky cryptographic algorithm vulnerability.</li> <li>Hard-coded cryptographic key vulnerability.</li> <li>Hard-coded password vulnerability.</li> <li>RSTP 40 nodes failed issue.</li> <li>Turbo Ring v1 failed issue on firmware v3.8.</li> <li>Removed misplaced UI config: IEEE 1588v2 E2E 1-step TC.</li> <li>CLI configuration export file has no RSTP port information issue.</li> </ol> <p><b>Changes:</b></p> <p>N/A</p>	<ol style="list-style-type: none"> <li>This is the last official firmware update for PT-7828 hardware revision v1.x and v2.x due to flash size limitation.</li> <li>The future official firmware upgrade will only apply to hardware revision v3.0 and above.</li> </ol>

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v3.8	Build_17041117	N/A	PT-7828 Series	<p><b>New Features:</b></p> <ol style="list-style-type: none"> <li>1. Supports IEC 61850 QoS.</li> </ol> <p><b>Enhancements:</b></p> <ol style="list-style-type: none"> <li>1. Added warning message when default password was not changed.</li> <li>2. Encrypted security keys in user interface.</li> <li>3. Enhanced RSTP compatibility.</li> </ol>	<p><b>Bugs Fixed:</b></p> <ol style="list-style-type: none"> <li>1. Cross-site scripting vulnerability.</li> <li>2. Denial of service attack vulnerability.</li> <li>3. Privilege escalation vulnerability.</li> <li>4. SSL v2/v3 vulnerability in HTTPS.</li> <li>5. Web console cannot be accessed when the SNMP get bulk service is running.</li> <li>6. Specific CLI command caused switch to reboot with default settings.</li> <li>7. Adding a new VLAN changed IGMP querier state from disable to enable.</li> <li>8. Could not save configurations to the ABC-01 via IE browser.</li> <li>9. Rate limit could not be set in web UI.</li> <li>10. PTP timestamp error in announce message.</li> <li>11. Removed 1588v2 PTP message of IEC 61850 QoS.</li> <li>12. Corrected authorization of Radius/TACACS+ login.</li> </ol> <p><b>Changes:</b></p> <ol style="list-style-type: none"> <li>1. SW PTP.</li> <li>2. IP filter.</li> <li>3. Line Swap.</li> <li>4. Traffic prioritization.</li> <li>5. SNMP setting.</li> <li>6. Port Access Control.</li> <li>7. Auto warning.</li> <li>8. Note: The above feature settings are removed from the menu mode console due to flash size limitation. However, user can also setup by web UI and CLI.</li> </ol>	N/A
v3.5	Build_16052409	N/A	PT-7828 Series	<p><b>New Features:</b></p> <p>N/A</p> <p><b>Enhancements:</b></p> <p>N/A</p>	<p><b>Bugs Fixed:</b></p> <ol style="list-style-type: none"> <li>1. Inaccurate system local time.</li> <li>2. Time floating in NTP mechanism.</li> </ol> <p><b>Changes:</b></p> <p>N/A</p>	N/A

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v3.4	Build_15071516	N/A	PT-7828 Series	<p><b>New Features:</b></p> <ol style="list-style-type: none"> <li>1. Supports IEC 61850 QoS.</li> </ol> <p><b>Enhancements:</b></p> <ol style="list-style-type: none"> <li>1. 12 digit product series number.</li> </ol>	<p><b>Bugs Fixed:</b></p> <ol style="list-style-type: none"> <li>1. Fixed bugs on firmware v3.</li> </ol> <p><b>Changes:</b></p> <p>N/A</p>	N/A
v3.3	N/A	N/A	PT-7828 Series	<p><b>New Features:</b></p> <ol style="list-style-type: none"> <li>1. Added SNMP MIB for SFP DDM.</li> </ol> <p><b>Enhancements:</b></p> <ol style="list-style-type: none"> <li>1. Added web interface for loop-protection enable/disable.</li> <li>2. Added web interface for SSH/SSL key generation.</li> </ol>	<p><b>Bugs Fixed:</b></p> <ol style="list-style-type: none"> <li>1. Login failed in CLI mode when password included a special character.</li> <li>2. Hybrid VLAN lacked SNMP MIB object.</li> <li>3. Access Control List (ACL) did not function correctly.</li> <li>4. SFP DDM displayed inaccurate values.</li> <li>5. IEEE 1588 PTP did not function correctly.</li> </ol> <p><b>Changes:</b></p> <p>N/A</p>	N/A
v3.1	N/A	N/A	PT-7828 Series	<p><b>New Features:</b></p> <p>N/A</p> <p><b>Enhancements:</b></p> <ol style="list-style-type: none"> <li>1. Passed ODVA EtherNet/IP certificate.</li> <li>2. Added some minor SNMP OIDs.</li> <li>3. Enhanced multicast performance.</li> <li>4. Added version number in MIB file.</li> <li>5. Supports Command Line Interface.</li> </ol>	<p><b>Bugs Fixed:</b></p> <ol style="list-style-type: none"> <li>1. NTP did not synchronize time in default setting.</li> <li>2. NTP client function did not work with Windows XP NTP server.</li> <li>3. Firmware Upgrade Failed when IEEE 802.1x was enabled.</li> <li>4. Switch rebooted when receiving IGMP v3 packets (commonly used in Windows).</li> </ol> <p><b>Changes:</b></p> <p>N/A</p>	N/A

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v2.7	N/A	N/A	PT-7828 Series	<p><b>New Features:</b> N/A</p> <p><b>Enhancements:</b></p> <ol style="list-style-type: none"> <li>Added new internal algorithm to prevent system hang when a layer 3 interface is changed due to link up and down and also received a lot of unknown packets at a rate greater than 50 Mbps.</li> <li>Added new internal algorithm to prevent system from generating incorrect layer 3 routing table when an Ethernet switch port abnormally links up/down.</li> </ol>	<p><b>Bugs Fixed:</b></p> <ol style="list-style-type: none"> <li>Fixed bug for Turbo Ring V2 recovery issue when Gigabit Fiber port abnormally links up/down.</li> </ol> <p><b>Changes:</b> N/A</p>	N/A
v2.6	N/A	N/A	PT-7828 Series	<p><b>New Features:</b></p> <ol style="list-style-type: none"> <li>Supports TurboPack™ 2009 (add new functions for Turbo Chain, IPv6, Modbus/TCP, IEEE 1588 PTP, SNMP Inform, LLDP, DHCP Option 82, Firefox, and SSH).</li> <li>Added OSPF, and VRRP.</li> <li>Push Ring port button when running Turbo Chain, the Chain ports' LED will be activated.</li> <li>Link Healthy Check on Gigaports for redundant protocols changed from Alarm mode to Polling mode.</li> <li>Added 10FL and MTRJ module.</li> <li>Added "RSTP_2004", "CHANGE_IP_NOREBOOT", "RTC".</li> <li>Adds an exception error to the system log and reboots the system when the system hangs.</li> </ol> <p><b>Enhancements:</b> N/A</p>	<p><b>Bugs Fixed:</b> N/A</p> <p><b>Changes:</b> N/A</p>	N/A

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v1.2	N/A	N/A	PT-7828 Series	<b>New Features:</b> 1. Added the PM-7200-8SFP compatibility function. <b>Enhancements:</b> N/A	<b>Bugs Fixed:</b> N/A <b>Changes:</b> N/A	N/A
v1.1	N/A	N/A	PT-7828 Series	<b>New Features:</b> 1. Added web interface for SSH/SSL key generation. 2. Added SNMP MIB for SFP DD. <b>Enhancements:</b> N/A	<b>Bugs Fixed:</b> 1. Hybrid VLAN lacks of SNMP MIB object. 2. Access Control List (ACL) cannot function correctly. 3. SFP DDM display inaccurate values. 4. IEEE 1588 PTP cannot function correct. <b>Changes:</b> N/A	N/A