Firmware for PT-7728 Series Release Notes

Version: v3.9	Build: FWR_PT7728_V3.9_Build_23120510
Release Date: Dec 28, 2023	

Applicable Products

N/A

Supported Operating Systems

N/A

New Features

• Added support for new MOXA commands:
- change network setting
- broadcast search
- import config (sys,ini)
- import cli
- upgrade firmware (firmware.rom)
- export plaintext config
- export encrypted config
- get device information
- verify account
- add/remove account
- register a web session id
- set mac address
- export debug log
- factory default
- load commands from a file and sent to the DUT
- Perform broadcast search 100000 times
• Added support for TLS v1.3.
• Added support for Account Password Policy.
• Added support for Account Login Failure Lockout.
• Added support for SSL Certificate Import.
• Added support for Encrypted Configuration.
• Added support for Management Interface in the Security section.

Enhancements

• Upgraded the JavaScript library to jquery-3.7.0.min.js.
• Upgraded the SSH package (dropbear_2019.78) to support "hmac-sha2-256 & diffie-hellman-group14-sha256".
• IP forwarding between interfaces is now enabled.

Bugs Fixed

• XSS vulnerabilities
- LLDP diagnostic page
- Time page (1st Time Server IP/Name & 2nd Time Server IP/Name)
- Remote TFTP page (all input filed)
- SNMP Settings page (Admin/User Data Encryption Key, 1st Trap Server IP/Name, 2nd Trap Server IP/Name)
- Email Setup page (email address)
- DHCP Relay Agent page (Value)
• [CVE-2021-27417]: If the file size is exceptionally large, undefined behavior can't be prevented.

• [MSRV-2019-003] Denial of Service (web service) by improper HTTP GET command (CNVD-2019-116145)
• [MSRV-2019-004] Denial of Service (web service) by over-sized (more than 12 MB) firmware upgrade through HTTP/HTTPS.
• [MSRV-2019-005] Denial of Service (web service) by excessive length of HTTP GET command.
• [MSRV-2017-011] Cross-Site Request Forgery (CSRF).
• [MSRV-2017-021] Release the cookie once the session expires to avoid the old cookie value being reused.
• [CVE-2022-0778] Import certificate issue: Updates OpenSSL package.
• [TALOS-2022-1621] A specially crafted HTTP request can lead to the disclosure of sensitive information.
• [TALOS-2022-1619] A specially crafted HTTP request can lead to an arbitrary JavaScript execution,
• [TALOS-2022-1618] A specially crafted HTTP message header can lead to denial of service.
• [TALOS-2022-1616] A specially crafted network sniffing can lead to the disclosure of sensitive information.
• [CVE-2022-40214] Potential tampered messages.
• [CVE-2022-40691] A specially crafted HTTP request can lead to disclosure of sensitive information.
• [nessus-43156] The remote network time service has a denial-of-service vulnerability.
• [nessus-97861] The remote NTP server responds to mode 6 queries, which can potentially be used in NTP amplification attacks.
• [Nessus-85582]: Web application potentially vulnerable to clickjacking.
• After configuring the NTP local time, if two configured NTP servers are configured, the NTP function does not work properly and may result in time sync failures.
• The SNMPv3 encryption data and shared key of the TACACS and RADIUS server can be viewed by snooping the web interface.

Changes

• Removed "IE 11" and "IE 7" wording from the web interface.
• Removed the CBC and SHA1 ciphers from TLSv1.2 for security reasons.
• Disabled TLS v1.0 and v1.1 for security reasons.
• Replaced the Monitoring page with a non-Java version.
• Removed the banner with device-related information from the login page.

Notes

• This firmware version can only be applied to PT-7728 HW Rev. 3.1.0 and higher.

Version: v3.8	Build: Build_17041116
Release Date: May 04, 2017	

Applicable Products

PT-7728-F-24, PT-7728-F-24-24, PT-7728-F-24-48, PT-7728-F-24-HV, PT-7728-F-48, PT-7728-F-48-48, PT-7728-F-48-HV, PT-7728-F-HV, PT-7728-F-HV-HV, PT-7728-F-HV-HV/KC, PT-7728-R-24, PT-7728-R-24-24, PT-7728-R-24-48, PT-7728-R-24-HV, PT-7728-R-48, PT-7728-R-48-48, PT-7728-R-48-HV, PT-7728-R-HV, PT-7728-R-HV-HV, PT-7728-R-HV-HV/KC

Supported Operating Systems

N/A

New Features

N/A

Enhancements

• Added warning message when default password was not changed.
• Encrypted security keys in user interface.
• Enhanced RSTP compatibility.

Bugs Fixed

• Cross-site scripting vulnerability.
• Denial of service attack vulnerability.
• Privilege escalation vulnerability.
• SSL v2/v3 vulnerability in HTTPS.
• Web console cannot be accessed when the SNMP get bulk service is running.
• Specific CLI command caused the switch to reboot with default settings.
• Adding a new VLAN changed IGMP querier state from disable to enable.
• Could not save configurations to the ABC-01 via IE browser.
• Corrected RSTP auto-edge behavior.
• Rate limit could not be set in web UI.
• PTP timestamp error in announce message.
• Removed 1588v2 PTP message of IEC 61850 QoS.
• Ports on slot 4 back to default setting after system reboot.
• Corrected RSTP edge definition in exported configuration file.
• Corrected authorization of Radius/TACACS+ login.

Changes

N/A

Notes

N/A

Version: v3.5	Build: Build_16052014
Release Date: N/A	

Applicable Products

PT-7728-F-24, PT-7728-F-24-24, PT-7728-F-24-48, PT-7728-F-24-HV, PT-7728-F-48, PT-7728-F-48-48, PT-7728-F-48-HV, PT-7728-F-HV, PT-7728-F-HV-HV, PT-7728-F-HV-HV/KC, PT-7728-R-24, PT-7728-R-24-24, PT-7728-R-24-48, PT-7728-R-24-HV, PT-7728-R-48, PT-7728-R-48-48, PT-7728-R-48-HV, PT-7728-R-HV, PT-7728-R-HV-HV, PT-7728-R-HV-HV/KC

Supported Operating Systems

N/A

New Features

N/A

Enhancements

N/A

Bugs Fixed

• Inaccurate system local time.
• Time floating in NTP mechanism.

Changes

N/A

Notes

N/A

Version: v3.4	Build: Build_15081113
Release Date: N/A	

Applicable Products

PT-7728-F-24, PT-7728-F-24-24, PT-7728-F-24-48, PT-7728-F-24-HV, PT-7728-F-48, PT-7728-F-48-48, PT-7728-F-48-HV, PT-7728-F-HV, PT-7728-F-HV-HV, PT-7728-F-HV-HV/KC, PT-7728-R-24, PT-7728-R-24-24, PT-7728-R-24-48, PT-7728-R-24-HV, PT-7728-R-48, PT-7728-R-48-48, PT-7728-R-48-HV, PT-7728-R-HV, PT-7728-R-HV-HV, PT-7728-R-HV-HV/KC

Supported Operating Systems

N/A

New Features

• Supports IEC 61850 QoS.
• Build-in MMS server based on IEC 61850-90-4 switch data modeling for power SCADA.

Enhancements

• 12 digit product series number.

Bugs Fixed

• Fixed bugs on firmware v3.3.

Changes

N/A

Notes

N/A

Version: v3.3	Build: N/A
Release Date: N/A	

Applicable Products

PT-7728-F-24, PT-7728-F-24-24, PT-7728-F-24-48, PT-7728-F-24-HV, PT-7728-F-48, PT-7728-F-48-48, PT-7728-F-48-HV, PT-7728-F-HV, PT-7728-F-HV-HV, PT-7728-F-HV-HV/KC, PT-7728-R-24, PT-7728-R-24-24, PT-7728-R-24-48, PT-7728-R-24-HV, PT-7728-R-48, PT-7728-R-48-48, PT-7728-R-48-HV, PT-7728-R-HV, PT-7728-R-HV-HV, PT-7728-R-HV-HV/KC

Supported Operating Systems

N/A

New Features

N/A

Enhancements

• Added web interface for loop-protection enable/disable.
• Added web interface for SSH/SSL key generation.
• Added SNMP MIB for SFP DDM.

Bugs Fixed

• Login failed in CLI mode when password contained a special character.
• Hybrid VLAN lacked SNMP MIB object.
• SFP DDM displayed inaccurate values.
• IEEE 1588 PTP did not function correctly.
• IPv6 did not function correctly.

Changes

N/A

Notes

N/A

Version: v3.1	Build: N/A
Release Date: N/A	

Applicable Products

PT-7728-F-24, PT-7728-F-24-24, PT-7728-F-24-48, PT-7728-F-24-HV, PT-7728-F-48, PT-7728-F-48-48, PT-7728-F-48-HV, PT-7728-F-HV, PT-7728-F-HV-HV, PT-7728-F-HV-HV/KC, PT-7728-R-24, PT-7728-R-24-24, PT-7728-R-24-48, PT-7728-R-24-HV, PT-7728-R-48, PT-7728-R-48-48, PT-7728-R-48-HV, PT-7728-R-HV, PT-7728-R-HV-HV, PT-7728-R-HV-HV/KC

Supported Operating Systems

N/A

New Features

N/A

Enhancements

• Passed ODVA EtherNet/IP certificate.
• Added some minor SNMP OIDs.
• Enhanced multicast performance.
• Added version number in MIB file.

Bugs Fixed

• NTP did not synchronize time in default setting.
• NTP client function did not work with Windows XP NTP server.
• Firmware Upgrade Failed when IEEE 802.1x was enabled.
• Switch rebooted when receiving IGMP v3 packets (commonly used in Windows 7).

Changes

N/A

Notes

N/A

Version: v3.0	Build: N/A
Release Date: N/A	

Applicable Products

PT-7728-F-24, PT-7728-F-24-24, PT-7728-F-24-48, PT-7728-F-24-HV, PT-7728-F-48, PT-7728-F-48-48, PT-7728-F-48-HV, PT-7728-F-HV, PT-7728-F-HV-HV, PT-7728-F-HV-HV/KC, PT-7728-R-24, PT-7728-R-24-24, PT-7728-R-24-48, PT-7728-R-24-HV, PT-7728-R-48, PT-7728-R-48-48, PT-7728-R-48-HV, PT-7728-R-HV, PT-7728-R-HV-HV, PT-7728-R-HV-HV/KC

Supported Operating Systems

N/A

New Features

• RSTP-2004.
• MSTP.
• NTP Server/Client.
• SW 1588 PTPv2.
• CLI.
• Ethernet/IP.
• Hybrid VLAN.
• Radius/TACACS+ for both login access and port authentication.
• Egress rate limit.
• Unknown unicast filtering.
• CPU loading.
• Changed IP address without rebooting.
• DHCP Discover retries forever, or retries for a period of time.
• GARP timer adjustment.
• Loop-protection.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A

Version: v2.6	Build: N/A
Release Date: N/A	

Applicable Products

PT-7728-F-24, PT-7728-F-24-24, PT-7728-F-24-48, PT-7728-F-24-HV, PT-7728-F-48, PT-7728-F-48-48, PT-7728-F-48-HV, PT-7728-F-HV, PT-7728-F-HV-HV, PT-7728-F-HV-HV/KC, PT-7728-R-24, PT-7728-R-24-24, PT-7728-R-24-48, PT-7728-R-24-HV, PT-7728-R-48, PT-7728-R-48-48, PT-7728-R-48-HV, PT-7728-R-HV, PT-7728-R-HV-HV, PT-7728-R-HV-HV/KC

Supported Operating Systems

N/A

New Features

• Supports TurboPack™ 2009 (add new functions for Turbo Chain, IPv6, Modbus/TCP, IEEE 1588PTP, SNMP Inform, LLDP, DHCP Option 82, Firefox, and SSH).
• Push Ring Port button when running Turbo Chain, the Chain ports' LED will activate.
• Link Healthy Check on Giga ports for redundant protocols changed from Alarm mode to Polling mode.
• Added "VLAN_UNAWARE","RSTP_2004","CHANGEIP_NOREBOOT".
• Added 10FL and MTRJ module.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A

Version: v1.3	Build: N/A
Release Date: N/A	

Applicable Products

PT-7728-F-24, PT-7728-F-24-24, PT-7728-F-24-48, PT-7728-F-24-HV, PT-7728-F-48, PT-7728-F-48-48, PT-7728-F-48-HV, PT-7728-F-HV, PT-7728-F-HV-HV, PT-7728-F-HV-HV/KC, PT-7728-R-24, PT-7728-R-24-24, PT-7728-R-24-48, PT-7728-R-24-HV, PT-7728-R-48, PT-7728-R-48-48, PT-7728-R-48-HV, PT-7728-R-HV, PT-7728-R-HV-HV, PT-7728-R-HV-HV/KC

Supported Operating Systems

N/A

New Features

• Add PM-7200-8SFP compatibility function.
• If you want to upgrade the up-to-date firmware, please refer to User's Manual page 3-10 "System File Update" section for detailed instructions.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A

Version: v1.2	Build: N/A
Release Date: N/A	

Applicable Products

PT-7728-F-24, PT-7728-F-24-24, PT-7728-F-24-48, PT-7728-F-24-HV, PT-7728-F-48, PT-7728-F-48-48, PT-7728-F-48-HV, PT-7728-F-HV, PT-7728-F-HV-HV, PT-7728-F-HV-HV/KC, PT-7728-R-24, PT-7728-R-24-24, PT-7728-R-24-48, PT-7728-R-24-HV, PT-7728-R-48, PT-7728-R-48-48, PT-7728-R-48-HV, PT-7728-R-HV, PT-7728-R-HV-HV, PT-7728-R-HV-HV/KC

Supported Operating Systems

N/A

New Features

• New release for the PT-7728 Series.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A