



# CVE-2020-6993

[MITRE](#)[NVD](#)[CVE.ORG](#)[JSON API](#)[Print: PDF](#)

## Summary

|                        |                                                                                                                           |
|------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>CVE</b>             | CVE-2020-6993                                                                                                             |
| <b>State</b>           | PUBLIC                                                                                                                    |
| <b>Assigner</b>        | ics-cert@hq.dhs.gov                                                                                                       |
| <b>Source Priority</b> | CVE Program / NVD first with legacy fallback                                                                              |
| <b>Published</b>       | 2020-03-24 20:15:00 UTC                                                                                                   |
| <b>Updated</b>         | 2020-03-26 19:42:00 UTC                                                                                                   |
| <b>Description</b>     | In Moxa PT-7528 series firmware, Version 4.0 or lower, and PT-7828 series firmware, Version 3.9 or lower, an attacker can |

## Risk And Classification

### Problem Types: CWE-200

## NVD Known Affected Configurations (CPE 2.3)

| Type             | Vendor | Product                                 | Version | Update | Edition | Language |
|------------------|--------|-----------------------------------------|---------|--------|---------|----------|
| Hardware         | Moxa   | Pt-7528-12msc-12tx-4gsfp-hv             | -       | All    | All     | All      |
| Hardware         | Moxa   | Pt-7528-12msc-12tx-4gsfp-hv             | -       | All    | All     | All      |
| Hardware         | Moxa   | Pt-7528-12msc-12tx-4gsfp-hv-hv          | -       | All    | All     | All      |
| Hardware         | Moxa   | Pt-7528-12msc-12tx-4gsfp-hv-hv          | -       | All    | All     | All      |
| Operating System | Moxa   | Pt-7528-12msc-12tx-4gsfp-hv-hv Firmware | All     | All    | All     | All      |
| Operating System | Moxa   | Pt-7528-12msc-12tx-4gsfp-hv Firmware    | All     | All    | All     | All      |
| Hardware         | Moxa   | Pt-7528-12msc-12tx-4gsfp-wv             | -       | All    | All     | All      |
| Hardware         | Moxa   | Pt-7528-12msc-12tx-4gsfp-wv             | -       | All    | All     | All      |
| Hardware         | Moxa   | Pt-7528-12msc-12tx-4gsfp-wv-wv          | -       | All    | All     | All      |
| Hardware         | Moxa   | Pt-7528-12msc-12tx-4gsfp-wv-wv          | -       | All    | All     | All      |
| Operating System | Moxa   | Pt-7528-12msc-12tx-4gsfp-wv-wv Firmware | All     | All    | All     | All      |
| Operating System | Moxa   | Pt-7528-12msc-12tx-4gsfp-wv Firmware    | All     | All    | All     | All      |
| Hardware         | Moxa   | Pt-7528-12mst-12tx-4gsfp-hv             | -       | All    | All     | All      |
| Hardware         | Moxa   | Pt-7528-12mst-12tx-4gsfp-hv             | -       | All    | All     | All      |
| Hardware         | Moxa   | Pt-7528-12mst-12tx-4gsfp-hv-hv          | -       | All    | All     | All      |
| Hardware         | Moxa   | Pt-7528-12mst-12tx-4gsfp-hv-hv          | -       | All    | All     | All      |
| Operating System | Moxa   | Pt-7528-12mst-12tx-4gsfp-hv-hv Firmware | All     | All    | All     | All      |

|                  |      |                                         |     |     |     |     |
|------------------|------|-----------------------------------------|-----|-----|-----|-----|
|                  |      |                                         |     |     |     |     |
| Operating System | Moxa | Pt-7528-12mst-12tx-4gsfp-hv Firmware    | All | All | All | All |
| Hardware         | Moxa | Pt-7528-12mst-12tx-4gsfp-wv             | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-12mst-12tx-4gsfp-wv             | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-12mst-12tx-4gsfp-wv-wv          | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-12mst-12tx-4gsfp-wv-wv          | -   | All | All | All |
| Operating System | Moxa | Pt-7528-12mst-12tx-4gsfp-wv-wv Firmware | All | All | All | All |
| Operating System | Moxa | Pt-7528-12mst-12tx-4gsfp-wv Firmware    | All | All | All | All |
| Hardware         | Moxa | Pt-7528-16msc-8tx-4gsfp-hv              | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-16msc-8tx-4gsfp-hv              | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-16msc-8tx-4gsfp-hv-hv           | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-16msc-8tx-4gsfp-hv-hv           | -   | All | All | All |
| Operating System | Moxa | Pt-7528-16msc-8tx-4gsfp-hv-hv Firmware  | All | All | All | All |
| Operating System | Moxa | Pt-7528-16msc-8tx-4gsfp-hv Firmware     | All | All | All | All |
| Hardware         | Moxa | Pt-7528-16msc-8tx-4gsfp-wv              | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-16msc-8tx-4gsfp-wv              | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-16msc-8tx-4gsfp-wv-wv           | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-16msc-8tx-4gsfp-wv-wv           | -   | All | All | All |
| Operating System | Moxa | Pt-7528-16msc-8tx-4gsfp-wv-wv Firmware  | All | All | All | All |
| Operating System | Moxa | Pt-7528-16msc-8tx-4gsfp-wv Firmware     | All | All | All | All |
| Hardware         | Moxa | Pt-7528-16mst-8tx-4gsfp-hv              | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-16mst-8tx-4gsfp-hv              | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-16mst-8tx-4gsfp-hv-hv           | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-16mst-8tx-4gsfp-hv-hv           | -   | All | All | All |
| Operating System | Moxa | Pt-7528-16mst-8tx-4gsfp-hv-hv Firmware  | All | All | All | All |
| Operating System | Moxa | Pt-7528-16mst-8tx-4gsfp-hv Firmware     | All | All | All | All |
| Hardware         | Moxa | Pt-7528-16mst-8tx-4gsfp-wv              | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-16mst-8tx-4gsfp-wv              | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-16mst-8tx-4gsfp-wv-wv           | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-16mst-8tx-4gsfp-wv-wv           | -   | All | All | All |
| Operating System | Moxa | Pt-7528-16mst-8tx-4gsfp-wv-wv Firmware  | All | All | All | All |
| Operating System | Moxa | Pt-7528-16mst-8tx-4gsfp-wv Firmware     | All | All | All | All |
| Hardware         | Moxa | Pt-7528-20msc-4tx-4gsfp-hv              | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-20msc-4tx-4gsfp-hv              | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-20msc-4tx-4gsfp-hv-hv           | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-20msc-4tx-4gsfp-hv-hv           | -   | All | All | All |



|                  |      |                                        |     |     |     |     |
|------------------|------|----------------------------------------|-----|-----|-----|-----|
| Hardware         | Moxa | Pt-/528-8msc-16tx-4gsfp-hv             | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-8msc-16tx-4gsfp-hv             | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-8msc-16tx-4gsfp-hv-hv          | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-8msc-16tx-4gsfp-hv-hv          | -   | All | All | All |
| Operating System | Moxa | Pt-7528-8msc-16tx-4gsfp-hv-hv Firmware | All | All | All | All |
| Operating System | Moxa | Pt-7528-8msc-16tx-4gsfp-hv Firmware    | All | All | All | All |
| Hardware         | Moxa | Pt-7528-8msc-16tx-4gsfp-wv             | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-8msc-16tx-4gsfp-wv             | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-8msc-16tx-4gsfp-wv-wv          | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-8msc-16tx-4gsfp-wv-wv          | -   | All | All | All |
| Operating System | Moxa | Pt-7528-8msc-16tx-4gsfp-wv-wv Firmware | All | All | All | All |
| Operating System | Moxa | Pt-7528-8msc-16tx-4gsfp-wv Firmware    | All | All | All | All |
| Hardware         | Moxa | Pt-7528-8mst-16tx-4gsfp-hv             | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-8mst-16tx-4gsfp-hv             | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-8mst-16tx-4gsfp-hv-hv          | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-8mst-16tx-4gsfp-hv-hv          | -   | All | All | All |
| Operating System | Moxa | Pt-7528-8mst-16tx-4gsfp-hv-hv Firmware | All | All | All | All |
| Operating System | Moxa | Pt-7528-8mst-16tx-4gsfp-hv Firmware    | All | All | All | All |
| Hardware         | Moxa | Pt-7528-8mst-16tx-4gsfp-wv             | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-8mst-16tx-4gsfp-wv             | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-8mst-16tx-4gsfp-wv-wv          | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-8mst-16tx-4gsfp-wv-wv          | -   | All | All | All |
| Operating System | Moxa | Pt-7528-8mst-16tx-4gsfp-wv-wv Firmware | All | All | All | All |
| Operating System | Moxa | Pt-7528-8mst-16tx-4gsfp-wv Firmware    | All | All | All | All |
| Hardware         | Moxa | Pt-7528-8ssc-16tx-4gsfp-hv-hv          | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-8ssc-16tx-4gsfp-hv-hv          | -   | All | All | All |
| Operating System | Moxa | Pt-7528-8ssc-16tx-4gsfp-hv-hv Firmware | All | All | All | All |
| Hardware         | Moxa | Pt-7528-8ssc-16tx-4gsfp-wv-wv          | -   | All | All | All |
| Hardware         | Moxa | Pt-7528-8ssc-16tx-4gsfp-wv-wv          | -   | All | All | All |
| Operating System | Moxa | Pt-7528-8ssc-16tx-4gsfp-wv-wv Firmware | All | All | All | All |
| Hardware         | Moxa | Pt-7828-f-24                           | -   | All | All | All |
| Hardware         | Moxa | Pt-7828-f-24                           | -   | All | All | All |
| Hardware         | Moxa | Pt-7828-f-24-24                        | -   | All | All | All |
| Hardware         | Moxa | Pt-7828-f-24-24                        | -   | All | All | All |
| Operating System | Moxa | Pt-7828-f-24-24 Firmware               | All | All | All | All |
| Hardware         | Moxa | Pt-7828-f-24-hv                        | -   | All | All | All |

|                  |                      |                                          |     |     |     |     |
|------------------|----------------------|------------------------------------------|-----|-----|-----|-----|
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-24-hv</a>          | -   | All | All | All |
| Operating System | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-24-hv Firmware</a> | All | All | All | All |
| Operating System | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-24 Firmware</a>    | All | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-48</a>             | -   | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-48</a>             | -   | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-48-48</a>          | -   | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-48-48</a>          | -   | All | All | All |
| Operating System | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-48-48 Firmware</a> | All | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-48-hv</a>          | -   | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-48-hv</a>          | -   | All | All | All |
| Operating System | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-48-hv Firmware</a> | All | All | All | All |
| Operating System | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-48 Firmware</a>    | All | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-hv</a>             | -   | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-hv</a>             | -   | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-hv-hv</a>          | -   | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-hv-hv</a>          | -   | All | All | All |
| Operating System | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-hv-hv Firmware</a> | All | All | All | All |
| Operating System | <a href="#">Moxa</a> | <a href="#">Pt-7828-f-hv Firmware</a>    | All | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-r-24</a>             | -   | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-r-24</a>             | -   | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-r-24-24</a>          | -   | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-r-24-24</a>          | -   | All | All | All |
| Operating System | <a href="#">Moxa</a> | <a href="#">Pt-7828-r-24-24 Firmware</a> | All | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-r-24-hv</a>          | -   | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-r-24-hv</a>          | -   | All | All | All |
| Operating System | <a href="#">Moxa</a> | <a href="#">Pt-7828-r-24-hv Firmware</a> | All | All | All | All |
| Operating System | <a href="#">Moxa</a> | <a href="#">Pt-7828-r-24 Firmware</a>    | All | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-r-48</a>             | -   | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-r-48</a>             | -   | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-r-48-48</a>          | -   | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-r-48-48</a>          | -   | All | All | All |
| Operating System | <a href="#">Moxa</a> | <a href="#">Pt-7828-r-48-48 Firmware</a> | All | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-r-48-hv</a>          | -   | All | All | All |
| Hardware         | <a href="#">Moxa</a> | <a href="#">Pt-7828-r-48-hv</a>          | -   | All | All | All |
| Operating System | <a href="#">Moxa</a> | <a href="#">Pt-7828-r-48-hv Firmware</a> | All | All | All | All |

|                  |      |                          |     |     |     |     |
|------------------|------|--------------------------|-----|-----|-----|-----|
| Operating System | Moxa | Pt-7828-r-48 Firmware    | All | All | All | All |
| Hardware         | Moxa | Pt-7828-r-hv             | -   | All | All | All |
| Hardware         | Moxa | Pt-7828-r-hv             | -   | All | All | All |
| Hardware         | Moxa | Pt-7828-r-hv-hv          | -   | All | All | All |
| Hardware         | Moxa | Pt-7828-r-hv-hv          | -   | All | All | All |
| Operating System | Moxa | Pt-7828-r-hv-hv Firmware | All | All | All | All |
| Operating System | Moxa | Pt-7828-r-hv Firmware    | All | All | All | All |

| References                                               |         |                                                       |                                           |
|----------------------------------------------------------|---------|-------------------------------------------------------|-------------------------------------------|
| Reference                                                | Source  | Link                                                  | Tags                                      |
| Moxa PT-7528 and PT-7828 Series Ethernet Switches   CISA | MISC    | <a href="https://www.us-cert.gov">www.us-cert.gov</a> | Third Party Advisory, US Government Resou |
| CVE Program record                                       | CVE.ORG | <a href="https://www.cve.org">www.cve.org</a>         | canonical                                 |
| NVD vulnerability detail                                 | NVD     | <a href="https://nvd.nist.gov">nvd.nist.gov</a>       | canonical, analysis                       |

No vendor comments have been submitted for this CVE.

| Legacy QID Mappings                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">591386</a> Moxa PT-7528 and PT-7828 Series Ethernet Switches Use of Hard-coded Credentials Multiple Vulnerabilities (ICSA-20-056-03, MPSA-190904) |