

TECHNICAL SUPPORT BULLETIN

December 21, 2020

TSB 2020-011 – 10G-SFPP-TX-A High Power

SEVERITY: High

PRODUCTS AFFECTED: 10G-SFPP-TX-A, ICX7250-24/24P/48/48P, ICX7550-24/24P/24ZP/24F/48/48P/48ZP/48F, ICX7650-48P/48ZP/48F, ICX7650-4x10GF, ICX7750-48F, ICX7850-48F/48FS

Affected Software Versions FI 08.0.90a and above, FI 08.0.95c and above. **CORRECTED IN RELEASE:** No correction

BULLETIN OVERVIEW

The 10G-SFPP-TX-A transceiver consumes significantly more power than typical 10G transceivers. This bulletin provides guidelines for deploying the 10G-SFPP-TX-A transceiver within the power capabilities of the supported ICX switches.

The 10G-SFPP-TX-A transceiver is supported in SW version FI 08.0.90a and above.

If the guidelines in this bulletin are not followed, there is a risk of system instability and/or reboot.

Table 1 in this document outlines the recommended ports to be left unused to avoid possible power violation.

PROBLEM STATEMENT

The 10G-SFPP-TX-A transceiver consumes significantly more power than typical 10G transceivers. This bulletin provides guidelines for deploying the 10G-SFPP-TX-A transceiver within the power capabilities of the supported ICX switches.

RISK ASSESSMENT

If the guidelines in this bulletin are not followed, there is a risk of system instability and/or reboot.

SYMPTOMS

Unexplained system reboot loop.

WORKAROUND

Please follow the guidelines provided in Table 1 below to avoid a power violation. For each 10G-SFPP-TX-A installed, another SFP+ slot MUST be left empty.

For example: If you are using four 10G-SFPP-TX-A, you must leave four SFP+ ports empty.

Table 1

| ICX Model | 10G-SFPP-TX-A Installed location | For each 10G-SFPP-TX-A inserted, this many SFP ports must remain unused. |
|---|---|--|
| ICX7250-24/24P/48/48P | Built-In SFP+ ports 1/2/1 to 1/2/8 | For every 1 10G-SFPP-TX-A, 1 port must remain unused. |
| ICX7550-24F | Built In SFP+ Ports 1/1/1 to 1/1/24 | No restrictions |
| ICX7550-48F | Built In SFP+ Ports 1/1/36 to 1/1/48 | For every 2 10G-SFPP-TX-A, 1 port must remain unused. |
| ICX7550-24/24P/24ZP/24F/ 48/48P/48ZP/48F | ICX7650-4x10GF module | For every 1 10G-SFPP-TX-A, 1 port must remain unused. |
| ICX7650-48P/48ZP/48F | ICX7650-4x10GF module | For every 1 10G-SFPP-TX-A, 1 port must remain unused. |
| ICX7750-48F | Port Group #1 1/1/1 to 1/1/32 | For every 1 10G-SFPP-TX-A, 1 port must remain unused. |
| | Port Group #2 1/1/33 to 1/1/48 | For every 1 10G-SFPP-TX-A, 1 port must remain unused. |
| ICX7850-48F/-48FS | Built-In SFP+ ports 1/1/1 to 1/1/48 | For every 1 10G-SFPP-TX-A, 1 port must remain unused. |

CORRECTIVE ACTION

Cease usage of 10G-SFPP-TX-A transceiver and follow the guidelines provided in Table 1 above to meet the power budget limitations.

CUSTOMER COMMUNICATION

This 10G-SFPP-TX-A transceiver consumes significantly more power than typical 10G transceivers.

If the provided guidelines are not followed, there is a risk of system instability and/or reboot.