



Connect Tech Inc.

Embedded Computing Experts

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Product Change Notification

Xtreme/10G Switch Firmware Update

PCN Number:	CTIU-00077
Revision:	0.00
Issue Date:	2024-02-21
Effective Date:	2024-02-21

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1 Product Identification

Part Number	Affected Stage 1 Firmware Revision(s)	Fixed Stage 1 Firmware Revision(s)
XDG202 XDG204	CTI XDG202 v2023-03.01.009 and earlier CTI 4.70.00 (All Versions)	CTI XDG202 v2023-03.01.010 and later
XDG916 XDG942	CTI 4.70.00 (All Versions)	Contact Connect Tech
XDG918	CTI 4.70.00 (All Versions)	Contact Connect Tech
XDG921	CTI 4.70.00 (All Versions)	Contact Connect Tech
XDG929 XDG930	CTI XDG202 v2023-03.01_PRF1934_001 and earlier	CTI XDG202 v2023-03.01_PRF1934_002 and later
CCG938	CTI 4.70.00 (All Versions)	Contact Connect Tech

2 Description and Reason of Change

AVL	<input type="checkbox"/>	Product Improvement	<input type="checkbox"/>
Material	<input type="checkbox"/>	BIOS Release	<input type="checkbox"/>
Assembly Process	<input type="checkbox"/>	Firmware Release	<input checked="" type="checkbox"/>
Assembly BOM	<input type="checkbox"/>	Datasheet / Manual	<input type="checkbox"/>
Testing	<input type="checkbox"/>	DFM	<input type="checkbox"/>
Manufacturing Site	<input type="checkbox"/>	Other	<input type="checkbox"/>
Equipment	<input type="checkbox"/>		

2.1 Problem Description

In specific power cycle scenarios, the switch may enter a state where it will no longer boot into the Stage 2 (main) firmware, even after a power cycle or reset.

2.2 Cause

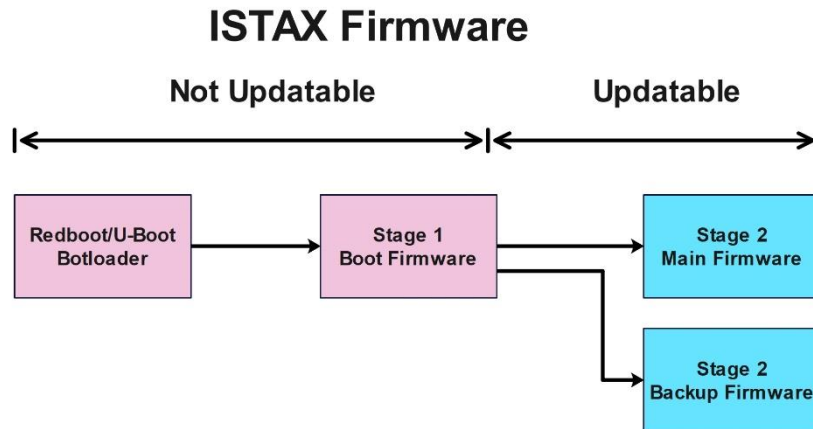
Software issues within the stage 1 firmware can cause the switch to enter a state that prevents it from loading the Stage 2 (main) firmware. This has the potential to occur during power up or during a reboot operation, not during device runtime.

2.3 Solution

The issue has been resolved by Connect Tech in the latest ISTAX firmware releases. See table in Section 1.

When this failure condition occurs, the switch will need to be reprogrammed with the updated Stage 1 firmware by Connect Tech.

2.4 Checking Stage 1 Firmware Version



The Stage 1 firmware is independent of the Stage 2 (main) firmware and can be a different version.

The Stage 1 firmware version is not accessible from the Web GUI or serial console while the system is running. However, it is printed on the switches serial console on power up.

An example serial output showing the Stage 1 firmware version is “CTI XDG202 v2023-03.01.010” :

```

RedBoot> exec
Now booting linux kernel:
Base address 0x80080000 Entry 0x80100000
Cmdline : init=/usr/bin/stage2-loader loglevel=4 image=mfi
Active fis: linux
00:00:01 Stage 1 (Version CTI XDG202 v2023-03.01.010) booted. Starting stage2
boot @ 1359 ms
00:00:03 Loading stage2 from NAND file 'fwsrWCmk'
  
```

3 Impact of change (positive or negative) on fit, form, function & reliability

3.1 Quality and Reliability

Updating the switch’s Stage 1 firmware will improve the reliability of the switch.

3.2 Software Compatibility

Customers currently using ISTAX 4.7 firmware releases are encouraged to update both Stage 1 and Stage 2 firmware to ISTAX 2023.03.01 or later. This is performed at Connect Tech via RMA.

3.3 Hardware Compatibility

No effect on the hardware compatibility of this product.

3.4 Mechanical Compatibility

No effect on the hardware compatibility of this product.

4 Product / Revision Discontinuation

Please contact Connect Tech Sales with any questions or concerns.

5 Contact Information

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