



Neuron NAM8192

What's new in version 3.0.0

Note

- Update software only with one board in the frame

New Features

- 4x10GbE support on QSFP28
- Clean switch functionality
- Audio delay per stream up to 1.2 seconds
- ST2110-30 compliance, Level A,B and C
- AES67 compliance, sample rate of 48kHz
- SWP08 Mnemonics support
- Audio gain
- PCM audio generator
- PCM audio analyzer
- Max stream count of 128, 32 per MAC
- Shuffler salvo

Known issues

- Sporadically a talker could be active but sometimes there is no actual stream
- [NAM-694] MACs could have start-up issue after reboot (Workaround: reboot)
- [NAM-708] Only multicast IP are working for input and output streams
- [NAM-706] ST2110-31 is not working for input and output streams
- Input listening to output on the same MAC is not working
- [NAM-597] Single channel audio streams are not working
- 2 channels with 20 bit depth, and 125 us packet time is not working
- 4 ms packet time is not supported
- AMWA NMOS IS-04/IS-05 is not working
- [NAM-713] Menu link status/LEDs are not always working (Workaround: reboot or re-plug fiber/QSFP module)
- [NAM-710] PTP is not always locked after start-up (Workaround: toggle lock mode)
- [NAM-711] Global PTP Clock is not always working correctly after start-up (Workaround: toggle PTP Profile)
- [NAM-712] DHCP for QSFP MACs are not tested

Version 1.0.0

Note

- Temporarily supports 4x 25GbE on a single QSFP+ module only. This will be replaced by support for 4x 10GbE on SFP+ modules in the next release
- Update software only with one board in the frame

New Features

- Audio delay per stream up to 1.2 seconds
- AMWA NMOS IS-04/IS-05

Known issues

Discrepancies compared to MVP:

- 10GbE SFP+ support not implemented

- When the NAM8192 is added in Cerebrum as a routing device, at least 1025 channels must be assigned to the device. This is because of the extended SWP08 protocol we have implemented in this product. If 1024 channels are selected, Cerebrum will switch to the standard SWP08 protocol, which causes the card not to respond to SWP08 commands
- Sporadically a talker could be active but sometimes there is no actual stream

Version 0.0.2 (Beta)

Fixed in this version

- At reboot half of the channel assignments were stored

Known issues

Discrepancies compared to MVP:

- 10GbE SFP+ support not implemented
- Audio delay controls not implemented
- AMWA NMOS IS-04/IS-05 not implemented
- When the NAM8192 is added in Cerebrum as a routing device, at least 1025 channels must be assigned to the device. This is because of the extended SWP08 protocol we have implemented in this product. If 1024 channels are selected, Cerebrum will switch to the standard SWP08 protocol, which causes the card not to respond to SWP08 commands.

Please consult Axon product management for this roadmap.