

## Netberg Aurora 610

- ONIF Pre-loaded
- Barefoot Tofino
- A unique development platform
- P4 programming language
- ONL-ready
- SDN-readv
- X86 Linux apps

The Aurora 610 is based on Barefoot Tofino switching silicon and well-suited for Top-of-Rack/Spine Datacenter, Enterprise, and Cloud Service Provider network deployments. It has 48 x 25GbE SFP28 and 8 x 100GbE QSFP28 interfaces, which can be configured up to 80 x 25G with break-out cables for high-density scenarios, and delivers full 2.0Tbps throughput.

It is a unique network development platform, designed to bring the twin pillars - performance and programmability - together for the first time in the history of networking. The combination of the Tofino programmable switch chip, the P4 programming language, and Capilano tool set are revolutionary.

RAS features include a redundant hot-swappable power supply (1+1) and fans (N+1). x86-based control plane provides access to an ecosystem of the same Linux applications that are deployed on servers.

A ready-to-use NOS, SONiC - a collection of networking software components required to have a fully functional L3 device, is available for data center applications.

Support of the Stratum project combines nextgeneration SDN capability with the flexibility of Barefoot Tofino Match-Action Unit pipelines.





## Key featues:

- Interfaces: 48x 25G SFP 28 ports + 8x 100G QSFP28 Ports, 2x 10G SFP+ ports, Management (1000Base-T), mini-USB Console Port, and USB2.0 (Type A)
- Intel® Xeon D-1527 CPU
- 8GB DRAM, 128GB m.2 SSD
- Barefoot Tofino DFN-T10-020D
- · Switching Capacity: 2.0Tbps, 22MB Packet Buffer
- · Jumbo Packet: 12K bytes
- 800W 1+1 RPSU, 100V~240V AC / 50~60Hz
- 4 N+1 redundant fans, Front-to-Back/Back-to-Front Airflow
- Fan LED, System status LED, PSU1 status LED, PSU2 status LED, Reset button
- Operating temperature: 0~45°C
- Operating humidity: 20-95% maximum relative humidity (non-condensing)
- · FCC, CE, RoHS6

## About us

Netberg is a provider of advanced hardware solutions for data centers and enterprises worldwide. With vast expertise in hardware and software, we aim to provide the best solutions for servers, Ethernet switches and routers, telecom solutions, and custom HW/SW products. More information about Netberg available at www.netbergtw.com





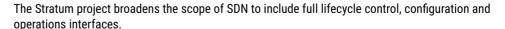
## Netberg Aurora 610



SONIC – a collection of networking software components required to have a fully functional L3 device. It is designed to meet the requirements of a cloud data center. It is fully open-sourced at OCP.

- BGP
- ECMP
- I AG
- LLDP
- QoS ECN
- QoS RDMA
- Priority Flow Control
- WRED
- COS
- SNMP
- Syslog
- Sysdump
- NTP
- COPP
- DHCP Relay Agent
- SONiC to SONiC upgrade
- One Image
- VLAN
- ACL permit/deny
- IPv6
- Tunnel Decap
- Mirroring
- Post Speed Setting
- BGP Graceful restart helper
- BGP MP
- · Fast Reload
- PFC WD
- TACACS+
- MAC Aging
- LACP Fallback
- MTU Setting
- Vlan Trunk
- IPv6 ACL
- · BGP/Neighbor-down fib-accelerate

- Port breakout
- Dynamic ACL Upgrade
- Critical Resource Monitoring
- MAC Aging
- IPv6 ACL
- BGP/Neighbor-down fib-accelerate
- PFC WD
- gRPC
- Dtel support
- · Sensor transceiver monitoring
- LLDP extended MIB: Ildpremtable, Ildplocporttable, Ildpremmanaddrtable, Ildplocmanaddrtable, Ildplocporttable, IldpLocalSystemData
- Warm Reboot
- Incremental Config (IP, LAG, Port shut/unshut)
- Asymmetric PFC
- PFC Watermark
- VXI AN
- · Routing Stack Graceful Restart
- Egress ACL bug fix and ACL CLI enhancement
- L3 RIF counter support
- BGP-EVPN support(type 5), (related HLD Fpmsyncd,Vxlanmgr,template)
- ZTP
- Mgmt VRF
- sFlow
- VRF
- · SSD diagnostic tolling
- Sub-port support
- Egress mirroring and ACL action support check via SAI
- Configurable drop counters
- HW resource monitor
- NAT



Envisioned as a key software component of SDN solutions of the future, Stratum implements the latest SDN-centric northbound interfaces, including P4, P4Runtime, gNMI/OpenConfig, and gNOI. It does not embed control protocols, but instead is designed to support either an external Network OS or to work with NOS functions running on the same embedded switch.



