

SEABRIGHT E110

GBE ENTERPRISE OR DATACENTER SWITCH



The T1Nexus Seabright E110 is a 48 port GbE Layer3 switch in a compact 1U form factor, suited for both Enterprise and Datacenter environments.



The E110 provides 48 10-BaseT/100-BaseTX/1000-BaseT ports and 4 1G/10G SFP+ ports and offers advanced DCB features. The system includes high reliability features, such as redundant and hot swappable power supplies and fans in forward and reverse airflow configurations.

The Seabright E110 supports current and future datacenter requirements, including an x86-based control plane for easier integration of automation tools, and an ONIE installer for 3rd party network operating systems and compatibility with Software Defined Networks.

FEATURES

Interfaces: 48 RJ45 GbE Ports, 4 SFP+ 10GbE Ports, Management (1000Base-T), Console Ports RJ45 and USB2.0 (Type A)

Switching Capacity: 176 Gpbs, 4MB Packet Buffer

Datacenter: DCB, TRILL, Virtual Port (VM) Switching

CPU: 1.7Ghz Rangeley x86 Dual Core, 2/4GB DRAM, 64Mbit NOR Flash, 8GB mSATA

Routing Tables: Unified MAC/VLAN/L3 hosts up to 96K, LPM 16K IPv4

Jumbo Packet: 12K bytes

Content Aware Processing: Layer 2-7 packet classification

LAYER TWO HARDWARE SUPPORTED

- IEEE DCB protocol support, such as PFC, QCN, ETS
- Virtual machine switching with VNTag/E-Tag support
- 802.3ad LACP
- 802.1D STP, 802.1w RSTP, 802.1s MSTP
- 802.1Q VLAN 4096, SVLAN, PVLAN
- 802.1Q-in-Q double-tagged VLAN
- 802.1P L2 Prioritization
- 802.1AB LLDP
- 802.1x
- IGMP/MLD Snooping
- PBB/PBB-TE
- Mirroring
- Storm Control

LAYER THREE HARDWARE SUPPORTED

- Hardware-based IP Forward
- Full IPv4 and IPv6 routing support with ECMP, WCMP, VRF, and uRPF support
- Hardware based tunneling including enhanced MPLS PWE, L3 MPLS, MPLS-TP, GRE, ISATAP, PBB, PBB-TE and SPBm
- IGMPv1/v2/v3
- IP Multicast: PIM-SM, PIM-DM, PIM-SSM

TRAFFIC MANAGEMENT HARDWARE SUPPORTED

- Flexible QoS queuing for UC Packets
- 2-rate, 3-color policing
- SP, WRR, WDRR Queuing
- 256K ACL for Layer2-4 packet classification, shaping and scheduling
- DSCP
- Hardware OAM support for IEEE 802.1ag, IEEE 802.3ah and Y.1731
- Ring and linear protection switching
- IEEE 1588 one-step and two-step time stamping support
- ICAP/ECAP handling

POWER AND COOLING

- Less than 150W consumption, 1+1 redundant, hot swap PSUs
- 100 - 240VAC Auto-ranging, 47-63Hz Auto input
- 2+1 redundant individual fans, front to back, or back to front system cooling

PHYSICAL DIMENSIONS

Height: 43.8 mm (1.73") 1 EIA unit

Width: 434 mm (17.09")

Depth: 320 mm (12.6")

ENVIRONMENTAL: OPERATING

Temperature: 0°C to 45°C

Humidity: 5% to 85% non-condensing

APPROVALS

EMC: CN(GB9254-2008), EU(EN55022, EN55024), FCC, VCCI, CCC

Safety: IEC60950-1, GB4943, UL/CSA, CB, CCC

T1 PART NUMBER	DESCRIPTION
E110-2C-F2B	Rangeley 2Core 1.7Ghz Front to Back Airflow AC
E110-2C-B2F	Rangeley 2Core 1.7Ghz Back to Front Airflow AC
T1-SFP-1G-T	1000BASE-T SFP Copper RJ-45 100m Transceiver Module
T1-SFP-1G-SX	1000BASE-SX SFP 850nm 550m DOM Transceiver Module
T1-SFP-1G-SX2	1000BASE-SX SFP 1310nm 2km DOM Transceiver Module
T1-SFP-1G-LX10	1000BASE-LX/LH SFP 1310nm 10km DOM Transceiver Module
T1-SFP-1G-LX20	1000BASE-LX/LH SFP 1310nm 20km DOM Transceiver Module
T1-SFP-1G-LH40	1000BASE-EX SFP 1310nm 40km DOM Transceiver Module
T1-SFP-1G-ZX80	1000BASE-ZX SFP 1550nm 80km DOM Transceiver Module
T1-SFP-1G-EZX100	1000BASE-EZX SFP 1550nm 100km DOM Transceiver Module
T1-SFP-1G-EZX120	1000BASE-EZX SFP 1550nm 120km DOM Transceiver Module
T1-SFP-10G-T	10GBASE-T SFP+ Copper RJ-45 30m Transceiver Module
T1-SFP-10G-SR	10GBASE-SR SFP+ 850nm 300m DOM Transceiver Module
T1-SFP-10G-SR-31	10GBASE-LRM SFP+ 1310nm 220m DOM Transceiver Module
T1-SFP-10G-LRM	10G SFP+ 1310nm 2km DOM Transceiver Module
T1-SFP-10G-LR	10GBASE-LR SFP+ 1310nm 10km DOM Transceiver Module
T1-SFP-10G-ER-31	10GBASE-ER SFP+ 1310nm 40km DOM Transceiver Module
T1-SFP-10G-ZR	10GBASE-ZR SFP+ 1550nm 80km DOM Transceiver Module
T1-SFP-10G-ZR100	10G SFP+ 1550nm 100km DOM Transceiver Module
T1-DAC-10G-xxxM	xxx-m 10G SFP+ Passive Direct Attach Copper Twinax Cable 30AWG. xxx=0.5,1,1.5,2,2.5,3,4,5,6
T1-ADAC-10G-xxxM	xxx-m 10G SFP+ Active Direct Attach Copper Twinax Cable 30AWG. xxx=3,5,7,10
T1-AOC-10G-xxxM	xxx-m 10G SFP+ Active Optical Cable. xxx=1,2,3,5,7,15,20,25,30

