TALO-N1000

NeuronEDGE 11-port gPTP and PTP Ethernet Switch

Preliminary



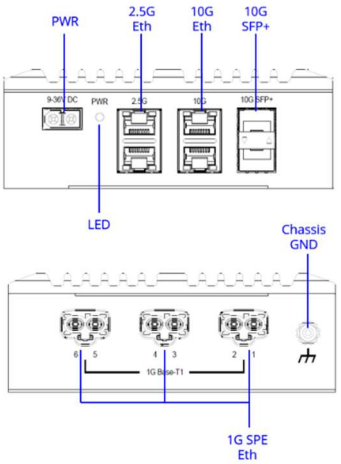
Features

- 6x 1000BASE-T1 with H-MTD connectors for external sensor node connectivity
- 2x 10GBASE-T and 2x 10G SFP+ ports for the backbone data transmission
- 2x 2.5GBASE-T ports for the external camera nodes
- Up to 512 KB packet buffer for efficient data handling
- Supports auto-negotiation and auto-MDI/MDI-X, enabling plug-and-play connectivity
- Flow control for effective network traffic management
- IEEE 802.1 AS Audio Video Bridging (AVB) support for time-sensitive networking
- IEEE 1588 v1 and v2 Precision Time Protocol (PTP) capabilities for accurate synchronization

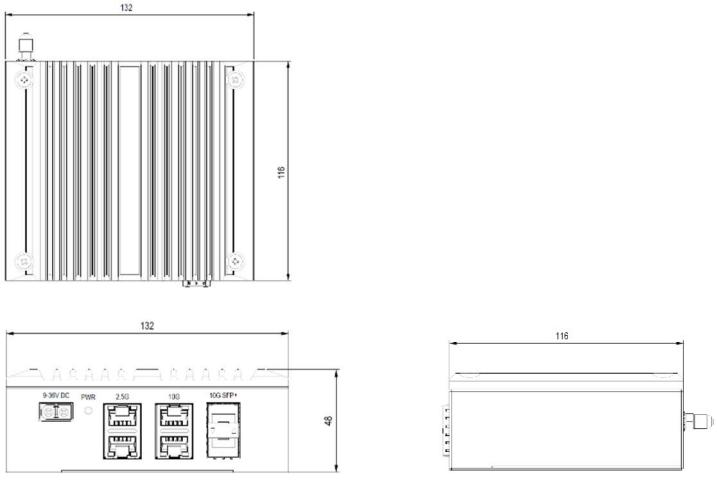
Specifications

Ethernet	
LAN 1 to 6	6x 1000Base-T1 with H-MTD
RJ45	2x 10/100/1000/2.5GBase-T ports 2x 10/100/1000/2.5G/5G/10GBase-T ports
SFP	2x 10G SFP+ port
Standard	
Ethernet Standard	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-T IEEE 802.3ab for 1000Base-T IEEE 802.3bz for 2.5G/5GBase-T IEEE 802.3an for 10GBase-T IEEE 802.3x for flow control IEEE 802.3az for Energy-Efficient Ethernet IEEE 802.1AS Audio Video Bridging
Processing	Store-and-forward switching
Switch Properties	Switching latency: less than 7us Switching bandwidth: 102 Gbps
Jumbo Frame	Up to 9K bytes
Packet Buffer	512 KB
LED Indicator	
Power	Green for power On
RJ45	Green for link/activity Amber for speed
SFP+	Green for link/activity
Power	
Power	9 to 36V DC with XT 60 connector
Power Consumption	TBD
Mechanical	
Dimension	132 x 116 x 48 mm (5.19” x 4.56” x 1.88”)
Weight	TBD
Mounting	DIN Rail, Wall mount
Environment	
Operating Temperature	-20℃ to 75℃ (-4°F to 167°F), Fanless
Storage Temperature	-40℃ to 85℃(-40°F to 185°F)
Humidity	5% to 95%, Non-condensing
Relative Humidity	95% @ 75℃
Certifications	CE, FCC

I/O Interface



Dimensions



Ordering Information

Model Name	Description
TALO-N1000	NeuronEDGE SyncLink gPTP/PTP Ethernet with the comprehensive data transmitter and interface

Accessories

Others

CAT5 Ethernet Cable	CAT5 Ethernet cable, 30 cm length
CAT6 Ethernet Cable	CAT6 Ethernet cable, 30 cm length
H-MTD Cable	H-MTD cable, 30 cm
Fiber Cable	Multi-mode fiber cable
10G 850nm SFP+ Transceiver	850 nm, multi-mode, 300 m
10G 1310nm SFP+ Transceiver	1310 nm, multi-mode, 220 m
10G SFP+ Active Optical Cable	850nm, multi-mode, 1 m distance
10G SFP+ Direct Attach Cable	SFP+ copper twinax direct attach cables, 0.5 m
Power Cable	XT 60 power cable, 30 cm