Trunexa

Onboard Managed Ethernet Switch with 10 Ports

FLOWNEX – MSW10

Flownex-MSW10 is a managed POE Ethernet switch ideal for onboard railway applications. They are optimized with high quality M12 connectors.

Flownex-MSW10 are designed in a metal housing to reach the protection class of IP54 with wall mounting feature. It offers management functionality to realize network segmentation and redundant ring topology networks.

The Flownex-MSW10 ethernet switches provide 10 ethernet M12 ports; 8 ports support IEEE 802.3at/af compliant PoE functionality. The switch PSE system enables 30W high power function.The switch comes with ignition sense to reduce the power consumption of vehicle battery.

They are designed to be complaint with the essential sections of the EN50155,ITxPT.

🤔 Hightlights

- Multilayer Switch
- Number of Ports: 10 Ports, 8 x 10/100Mbps + 2 x 10/100/1000Mbps
- POE: Ports : 8, PoE classes 0,1,2,3,4, 802.3at compliant, PoE management
- Power Supply: 24V nominal supply
- Operating Temperature: -40°C~85°C
- Linux based (OpenWRT)





| Ethernet communication | |
|-------------------------|--|
| Standard | IEEE 802.3u 10Base-T Ethernet IEEE 802.3u 100Base-TX Ethernet IEEE 802.3ab 1000Base-TX Gigabit Ethernet IEEE 802.3af Power over Ethernet IEEE 802.3at High Power over Ethernet IEEE802.3x Flow Control and Back Pressure IEEE802.3ad Port trunk with LACP IEEE802.1d Spanning Tree IEEE802.1s Multiple Spanning Tree IEEE802.3ad Link Aggregation Control Protocol (LACP) IEEE802.1AB Link Layer Discovery Protocol (LLDP) IEEE802.1p Class of Service IEEE802.1Q VLAN Tag |
| Switch Architecture | Non-blocking eight traffic cla <mark>ss QoS</mark> switch fabric |
| Mac Address | 16К |
| Jumbo frame | 10K Bytes |
| Interface | |
| Ethernet Ports | 2 x 1000 Base-T/ Gigabit Ethe <mark>rnet port for uplink and downlink with bypass</mark> enable: M12-X code 8-pin female connectors 8 x 100 Base-T/ Fast Ethernet ports : M12-D code 4-pin fem <mark>ale connectors</mark> |
| LED Indicators | Ethernet port: Link/Activity (<mark>Green), Speed (Green)</mark> PoE: Link/Act (Green, PoE model) Per unit: Power 1 (Green), MOD (Green) ERR (Red) |
| USB Port | OS update |
| Power Over Ethernet | |
| Power over Ethernet | IEEE 802.3af/at,End-span wiring architecture |
| PoE operating mode | Auto PoE: IEEE 802.3af/at with 2-event detection for PD |
| Powering capability | IEEE 802.3af : 15.4 W, IEEE802.3at : 30W |
| PoE system power budget | 80 Watt |
| Power Supply | 24V nominal(16.8V-33.6V) |
| Enclosure | Aluminium |
| IP Rating | IP54 |
| Enclosure Dimensions | 232.08 x 157 x 85.5 mm including wall mount |
| Operating Temperature | -40°C~85°C |
| | |



Mechanical



Compliance CE, ROHS, EN50155, EN45545, ITxPT

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