L1300 LynxSwitch

GbE Managed Industrial Ethernet Switch with Self-Healing Ring Capability

Key Features:

- **FRNT (Fast Re-configuration of Network Topology):**
  - 20 mS reconfiguration of redundant ring
  - Up to 200 switches supported in ring
  - Full immunity versus any broadcast and multi-cast traffic
- **Switch Management via Free IP Config tool:**
  - SNMP v2c
  - Port setting (auto-negotiation, HDX/FDX and 10/100 Mbps)
  - Port alarm configuration
  - STP/RSTP
  - Port Mirroring
- **Real time Ethernet:**
  - QoS based on layer 2 (IEEE802.1p) and layer 3 (IP ToS)
  - Four priority queues
  - Strict priority scheduling
  - Head of Line blocking prevention for low priority packets
- **True industrial specification**
  - Military design
  - Full metal housing – IP40
  - Wide temperature range (-40 to +70 °C)
  - Wide DC power range (19 to 60VDC)
  - No moving parts or electrolytic capacitors
  - Low power consumption
  - Redundant power input with polarity protection Input
  - Power monitoring
  - High MTBF numbers
  - CE approved for industrial use
  - DNV approved for marine use
- **Auto MDI/MDIX technology to ease switch connection**
- **User configurable fault contact**
- **35 mm DIN rail mounting**

The managed L1300 LynxSwitch fulfills the toughest industrial environmental requirements. The FRNT concept of Weed offers ultra fast re-configuration (20mS) of the network topology. FRNT eliminates failures caused by network links and/or switches. Management of the L1300 switches is easy and is done by the user in the Windows based IP

Configuration tool from Weed. The tool is free and any of the Ethernet ports can be used for this purpose. Thus, no serial port is required for setting the configuration parameters on the L1300 switch. This means that the L1300 can be mounted and installed prior to configuration. Excellent real time properties are offered through both layer 2 and layer 3 priority support with four priority queues. A fault contact alarm is provided in the switch in order to indicate any switch failures including user configurable port alarms.

Port combinations:

The L1300 series offers full flexibility regarding port combinations. Copper (TX), Multi Mode (MM) fiber and/or Single Mode (SM) fiber can be combined on the same switch. Standard combinations are:

L1306 6 ports 10/100BASE TX

L1307F1 1 port fiber, single- or multimode, 6 ports 10/100BASE TX

L1308F2 2 ports fiber, single- or multimode, 6 ports 10/100BASE TX

Choose your fiber combination. Both types of transceivers are supported giving a range from 2 km to 120 km. LC fiber connectors are offered for both MM and SM.

Weed Instrument
Fiber Optics

Technical Data

LynxSwitch Type	L1306	L1307F1-MM	L1308F2-MM	L1307F1-SM	L1308F2-SM
Ports					
10/100 Base-T(x) Ports (RJ45) Autonegotiation, Auto MDI/MDI-X, Support for long cable 150m (Cat 5e)	6	6	6	6	6
1000 MM ports, SX (550m @ 850nm)-default, SX+(2km @ 1310nm)-optional	0	1	2	0	0
1000 SM ports, LX (10km @ 1310nm)-default, LHX (40km @ 1310nm), XDZX (80km @ 1550nm) and EZX (120km @ 1550nm)	0	0	0	1	2
Power					
Input power	19-60VDC redundant inputs with input voltage supervision				
Transient protected					
Power consumption (Typ)	6W	6.7W	7.4W	6.7W	7.4W
Insulation	1500Vrms basic insulation according to EN60950				
Physical Dimensions	(DIN clip included)				
Dimensions	H: 100 mm W: 52.5 mm D: 101 mm (L300) D: 112 mm				
Weight	600 g (1.4 lbs)				
Environmental					
Enclosure	IP40				
Temperature (storage)	-40 to 85 ºC (-40 to 185 ºF)				
Temperature (operational)	-40 to 70 ºC (-40 to 158 ºF)				
Humidity	Humidity 5-95% RHD non-condensing (100% for coated version)				
Altitude	2000 m (6500 ft)				
EMC	EN 61000-6-2 industrial immunity				
	EN 50081-2 industrial emission				
Vibration	IEC 255-21-1 Class 1				
	IEC 255-21-2 Class 1				
Safety	EN 60950				
Miscellaneous					
Fault contact	Potential free electronic relay contact, glitch free switching. Current rating 120 mA continuous. Voltage rating 60V Isolation withstands 1500Vms basic insulation according to EN60950. Transient protected.				
MMI	ON/FAIL LED indicates green for link and flashing green for activity. Port LEDs can also indicate yellow for non-link condition on a port configured for link monitoring (active link expected)				
QoS (Quality of Service)	High-speed non blocking QoS switch fabric with 4 traffic classes. 1Mbit shared frame buffer. Both layer 2 (ref, IEEE802.ip) and layer 3 (IP ToS) are supported.				

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