

Xpresso 96000 Series

Hardened

Compact Size Manageable Switch:

0/1/2/4 port 100FX or 1 port Giga TX/FX + 8/7/6/4 port 10/100TX

Key Feature

- Support 802.3/802.3u/802.3x
- 10/100M-Full/Half-duplex, MDI/MDIX, Auto-Negotiation
- Bandwidth Control
- Gigabit copper or fiber port
- Alarms for power failure by relay output
- Redundant 24VDC Power inputs or 12V@3A DC Jack
- Support Din-Rail or Rack mounting installation
- Meets NEMA TS2 Environmental requirements for Traffic control equipment
- Meets IEC 61000-6-2 EMC Generic standard immunity for Industrial environment



Management Support

- 4K MAC addresses
- 256KBytes buffer memory
- Full wire-speed forwarding rate
- IEEE 802.1q VLAN Tagging
- IEEE 802.3x compliant Flow Control
- IEEE 802.1w Rapid Spanning Tree Algorithm
- Port Trunking, up to 2 groups of 4 ports per group
- IP Multicast Filtering through IGMP Snooping
- Port security
- Port Mirroring
- SNMP, RMON, Web Browser, Telnet, and TFTP Management

Technical Specification

- | | |
|--|--|
| - ESD Standard (IEC 61000-4-2) | Enclosure Contact: +/- 4kV; Criteria B |
| | Enclosure Air: +/- 8kV; Criteria B |
| - Radiated FRI Standard (IEC 61000-4-3) | Enclosure Ports: 10V/m, 80 to 1000MHz; Criteria A |
| - Burst Standards (IEC61000-4-4) | Enclosure Ports: +/- 4kV@2.5kHz; Criteria B |
| | D.C. Power Ports: +/- 4kV; Criteria B |
| | A.C. Power Ports: +/- 4kV; Criteria B |
| - Surge Standards (IEC 61000-4-5) | Signal Ports: +/- 1kV Line-to earth; Criteria B |
| | D.C. Power Ports: +/- 0.5kV Lint-to-earth; Criteria B |
| | A.C. Power Ports: +/- 2kV; Lint-to-earth; Criteria B |
| - Induced RFE Standards (IEC 61000-4-6) | Signal Ports: 10v@ 0,5 - 80 MHz; Criteria A |
| | D.C. Power Ports: 10v@ 0,5 - 80 MHz; Criteria A |
| | A.C. Power Ports: 10v@ 0,5 - 80 MHz; Criteria A |
| | Earth Ground Ports: 10v@ 0,5 - 80 MHz; Criteria A |
| - Magnetic Field Standards (IEC 61000-4-8) | Enclosure Ports: 30A/m@ 50, 60Hz; Criteria A |
| - Voltage Dip Standards (IEC 61000-4-11) | A.C. Power Ports: 30% Reduction for 0.5 period; Criteria B |



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Technical & Physical Specification

Environmental Test Standards:

- (IED 60068) Vibration Resistance: 5G@150Hz; Criterion 3
(Operation / Storage / Transport)
- (IED 60068-2-27) Shock: 25G@11ms
(Half-Sine Shock Pulse; Operation)
50G@11ms
(Half-Sine Shock Pulse: Storage/Transport)
- (IED 60068-2-32) Free Fall: 1M (3,281ft.)

LED:

- Per Unit - Power Status (PWR1, PWR2)
- Per Port - LNK/ACT, Green for 10/100TX or 100FX
100, Yellow for 10/100TX or 100FX
1000, Green for 1000Base (8+1G)
ACT, Yellow for 1000Base (8+1G)

Cable:

- 10Base-T 2-pair UTP Cat. 3, 4, 5, Up to 100m (328ft)
- 100Base-TX 2-pair UTP Cat. 5, Up to 100m (328ft)
- 100Base-FX 62.5/125um Multi-Mode fiber optic cable, up to 2KM
- 100Base-FX 10/125um Single-Mode fiber optic cable, up to 75KM
- 1000Base-SX 62.5/125um Multi-Mode fiber optic cable, up to 220m
- 1000Base-SX 50/125um Multi-Mode fiber optic cable, up to 550m
- 1000Base-LX 62.5/125um Multi-Mode fiber optic cable, up to 550m
- 1000Base-LX 10/125um Single-Mode fiber optic cable, up to 5KM
- 1000Base-T 4-Pair UTP Cat. 5, up to 100m

Ethernet Standards:

- IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3u 100Base-FX
- IEEE 802.3z 1000Base-SX, 1000Base-LX, IEEE 802.3ab 1000Base-T

Switching Methods:

Store-and-Forward

Forwarding Rate:

14,880pps for 10Mbps, 148,800pps for 100Mbps, 1,488,000pps for 1000Mbps

Power Supply Options: DC Jack: 12VDC or 100-240VAC, 50-60Hz External Universal PSU. 2A
Terminal block: DC Input 24VDC

Power Consumption: < 10W

Operating Temperature: -34 C ~ 74 C (-30 F ~ 165 F)

Storage Temperature: -45 C ~ 93 C (-50 F ~ 200 F)

Humidity: 10% ~ 95%, non-condensing

Dimensions: W135mm x D125mm x H50mm

Weight: 0.8kg

ISO 9001 ISO 9001# 3EAY025-01
BSMI
970 Via Rodeo,
Placentia, CA 92870, USA
TEL: +1-714-729-2400
FAX: +1-714-729-2404
www.etherwan.com
info@etherwan.com



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Approvals

ISO: Manufactured in an ISO9001 facility
 Safety: CSA C22.2 NO. 60950
 UL 60950
 EN 60950
 IEC 6095, IEC 61000-6-2
 Emission Compliance: FCC Part 15, Class A
 CE Approve: EN55022 (CISR22 Class A)
 EN55024 (CISPR24 Class A)

Ordering Information

Hardened Compact Manageable Switch

Xpresso 96008 Series	8-port 10/100Base-T/TX
Xpresso 96026 Series	6-port 10/100Base-T/TX + 2-port 100Base-FX Multi or SC Single-Mode, up to 75KM
Xpresso 96044 Series	4-port 10/100Base-T/TX + 4-port 100Base-FX Multi or SC Single-Mode, up to 75KM
Xpresso 96018 Series	8-port 10/100Base-T/TX + 1-port 100Base-FX Multi or SC Single-Mode, up to 75KM
Xpresso 96208 Series	8-port 10/100Base-T/TX + 1-port 1000Base-T
Xpresso 96308 Series	8-port 10/100Base-T/TX + 1-port 1000Base-SX
Xpresso 96408 Series	8-port 10/100Base-T/TX + 1-port 1000Base-LX, up to 10KM
Xpresso 96508 Series	8-port 10/100Base-T/TX + 1-port 1000Base-LX, up to 20KM

The order number (valid combination) is formed by a combination of the elements below.

EX96XXX-MT-I-P

XXX- Series number

M - Mode of 100FX port:

0= No 100FX port. 1= Multi-Mode. 2= Single Mode.

T - Type of 100FX port:

Multi Mode:

0= No 100FX Multi-Mode
 A= 100FX SC
 B= 100FX ST
 C= 100FX VF-45
 D= 100FX MT-RJ

Single Mode:

0= No 100FX Single Mode
 A= 100FX SC-20 KM B= 100FX SC-40KM
 C= 100FX SC-75 KM D= 100FX ST-20KM
 E= 100FX (WDM) A-type-20KM F= 100FX (WDM) A-type-40KM
 G= 100FX (WDM) B-type-20KM H= 100FX (WDM) B-type-40KM

I - Installation type: 1= DIN Rail 2 = Desk top

P - Power supply type:

A= Terminal Block. B= USA - External power supply.
 C= Europe - External power supply. D= Japan - External power supply.
 E= Australia - External power supply



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BSMI
 970 Via Rodeo,
 Placentia, CA 92870, USA
 TEL: +1-714-729-2400
 FAX: +1-714-729-2404
 www.etherwan.com
 info@etherwan.com