

Model ESM41

4x 10/100TX + 1x 100FX LAN Switch



- **FIBER PORT: Multi/Single-mode. Available with SC, ST or MTRJ connectors**
- **4 RJ45 Ports**
- **Comprehensive LED support, indicator for Link, Activity, Full/Half, Collision and Auto Negotiation**
- **Supports MDI / MDI-X Auto Crossover**
- **Half duplex back pressure flow control**
- **Full Duplex IEEE 802.3x flow control**
- **Broadcast storm protection**
- **10/100Mbps, full/half duplex, flow control and auto negotiation**
- **Low power operation**
- **Very small form factor, 95mm x 80mm x 23 mm (3.75" x 3.15" x 0.9")**
- **Automatic address learning, address aging and address migration**
- **Integrated address Look Up Engine, supports 1K absolute MAC addresses**
- **Wire speed reception and transmission**
- **Layer 2 switch**
- **1.4 Gbps memory bandwidth**
- **Designed and manufactured in the USA**

ESM41 TECHNICAL SPECIFICATIONS

| | | |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Network Standards | Ethernet IEEE 802.3 | |
| Speed | 10 Mbits/Sec. 100 Mbits/Sec. | |
| Power Requirements for ESM41 | <i>Input Voltage;</i> <i>Output Voltage</i> | 110, 230, 240 VAC.12 VDC, 1.0 amp US, UK, EU external power supply |
| Power Requirements for ESM41-Z | <i>Input Voltage;</i> | Self regulating 70 to 250 VAC. Internal power supply |
| LEDs | Total 21 | 2 for power, 4 for each 10/100 port Collision, Link/Activity. Full/half duplex & 10/100. The 10/100 is omitted from the fiber port. |
| Switches | Total 3 | Cross-over, Reset & Full/Half Duplex |
| Connectors | Total 6 | 4 RJ45 for 10/100 Ports. Choice of SC, ST or MTRJ fiber. DC Power jack ESM41-X. Standard IEC connector for ESM41-R |
| MAC addresses | Look up engine supports 1 K | Automatic learning, address aging & address migration |
| Flow control | Half Duplex | Back pressure |
| Bandwidth | 1.4 Gbps memory | Wire speed reception & transmission |
| Broadcast storm protection | | |
| Weight | 3 lbs. (1.4 kg) | including power supply |
| Dimensions | | |
| ESM41 | 4.6" x 2.8" x 0.8" | (11.7 cm x 7.3 cm x 1.7 cm) |
| ESM41-Z | 4.7" x 3.2" x 1.8" | (12.3 cm x 8.0 cm x 4.7 cm) |
| Environmental | <i>Operating Temperature</i> <i>Storage Temperature</i> <i>Relative Humidity</i> | 32 to 122F (0 to 50 C) -4 to 140F (-20 to 60 C) 5% to 90% (non-condensing) |
| Cabling | UTP Category 5, <i>maximum cable distance</i> 100 meters Fiber multi-mode, <i>maximum cable distance</i> 2 kilometers Fiber single-mode, <i>maximum cable distance</i> 15 or 100 kilometers | |
| Regulatory Approvals | EMI FCC Class A & CE. | |
| Warranty | 5 years | |

Ordering Information:

ESM41-ST for 100FX Multimode ST connector 2 km
ESM41-SC for 100FX Multimode SC connector 2km
ESM41-MTRJ for 100FX Multimode MTRJ connector 2 km
ESM41-SM for 100FX Single Mode SC connector 50 km

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