

Model ESM81

Console Managed Micro Switch with 8x 10/100TX & 1x 100FX Ports



The ESM81 is a layer 2 Fast Ethernet Micro Switch that connects up to nine work stations with 10BaseT or 100BaseTX or 100BaseFX networks and operates at full wire speed without collisions or discards. The eight RJ45 ports are able to auto negotiate to 10Mbps or 100Mbps full or half duplex. The 100FX port has a half/full duplex switch. Extremely small in size and lightweight, it's very attractive for small business and home office applications (SOHO).

Fast Ethernet was designed in order to ensure cost effective, simple migration from 10 Mbps to 100 Mbps maintaining the Ethernet transmission protocol, Carrier Sense Multiple Access Collision Detection (CSMA/CD). Dual speed products offer the ability to leverage your existing network investment of 10 Mbps, the hardware, the software and personal training and blending it with 100 Mbps products on as needed basis as budgets will allow.

The 10/100 dual speed hubs are generally cheaper than 10/100 switches but share the available bandwidth amongst all of the ports. Switches can operate at full band width on each port making them much more efficient.

- Console port management interface
- Supports Port Based VLAN
- Quality of Service for Voice over IP applications
- Fiber Port Single or Multi Mode ST or SC
- Auto Negotiation for 10/100, Full/half Duplex & crossover
- 2.0 Gbps high performance memory bandwidth
- Wire speed reception & Transmission
- 32Kx32 of SRAM for Frame Buffering
- Flow Control
- 1 K Absolute MAC Addresses
- Broadcast Storm Protection
- Made in USA

ESM81 TECHNICAL SPECIFICATIONS

Network Standards	Ethernet IEEE 802.3	
Speed	10 Mbps. 100 Mbps.	
Power Requirements for ESM81	<i>Input Voltage;</i> <i>Output Voltage</i>	110- 240 Vac 12 VDC @ 1.0 amp Internal self regulating 80 to 250 VAC
for ESM81Z		
LEDs	Total 36	1 for power, 4 for each 10/100TX port; Collision, Link/Activity. Full/half duplex & 10/100. 3 for FX port:
Switches	Total 2	Reset, Half/full duplex for FX port
Connectors	Total 11	8 RJ45 for 10/100 Ports. . 1 DB15 for console management. FX, multi mode choice of SC or ST. Single mode SC or Long haul SC. ESM81: 1 DC Power jack ESM81Z: Standard IEC
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	0.5 lbs. (0.23 kg)	excluding power supply
Dimensions ESM81	5.8" * x 3.7" x 0.8" * 6.7" inc. flange	(14.7* cm x 9.4 cm x 1.7 cm) *17 cm inc. flange
ESM81Z	5.8" * x 3.7" x 1.8" * 6.7" inc. flange	(14.7* cm x 9.4 cm x 4.7 cm) *17 cm inc. flange
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: Single mode (50 Km) or Multi Mode (2 Km)	
EMI & Safety	FCC Class A, CE.	
Warranty	5 years	

ESM81 ORDERING INFORMATION

ESM81 ESM81-UK ESM81-SA ESM900-EU	9 Port Switch with US/Canada 110-230 VAC external power supply. 9 Port Switch with UK 230 VAC external power supply. 9 Port Switch with South African 230 VAC external power supply. 9 Port Switch with UK 230 VAC external power supply.
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