

ESU Ethernet Switch Unit (12 Port)



The ESU is a highly reliable, feature rich, 12 Port Ethernet switch. The ESU adds switched ethernet functionality seamlessly to existing PDH networks.

The ESU is specifically designed to match the challenging environmental and power supply performance characteristics required in Dedicated Networks.

The ESU has twelve 10/100Base-T interfaces, using standard RJ45 connectors. The unit supports MDI/ MDX, so that cross-over cables are not needed.

The ESU delivers high performance Layer 2 Ethernet switching in a compact form factor.

Tag based VLANs (802.1q) are supported, allowing network segmentation without being restricted by physical connections. VLAN, access port, trunk port & filtered trunks ports are also supported, allowing network designers more flexibility.

Four levels of QOS are supported.

Advanced features such as rate limiting on the Ethernet ports is provided, preventing unpredictable network performance due to broadcast storms of malfunctioning equipment.

The Spanning Tree Protocol is supported on ports 1 to 4 to allow the ESU to be deployed in loop topologies thus providing redundant paths to protect against link failure.

The ESU can be used in existing PDH multiplexer equipment, where switched Ethernet is required. This eliminates the need for an external switch, with a separate power supply and management system.

With an increasing number of critical services migrating to Ethernet, the ESU has been designed with an extremely high MTBF and for operation in extreme temperatures.

The ESU can be managed locally via CLI or remotely using Telnet, SNMP or a Web Browser. These management interfaces can be supported over a separate VLAN thus offering a greater level of security for management traffic.

In addition, for those organisations with an existing HPOV management system, a plug-in is available to streamline the management of the ESU in a HPOV environment.

Full remote configuration using Telnet, SNMP and HTTP Protocols are available.

Software download also using TFTP is supported, thus reducing installation time.

A comprehensive set of SNMP traps and alarms are provided to assist fault management and isolation.

Technical Highlights

- 12 x 10/100Base-T
- 802.1p, 802.1q
- Rate Limiting
- Spanning Tree Protocol (STP) Support
- Support for 4096 VLANs
- Remote Management via SNMP, Telnet, CLI, HPOV or Web Server
- -20 to -72 VDC Power Supply
- -5°C to +65°C Operation



Technical Specifications



Model Order Code	P21020.01	Standards	IEEE 802.3 Ethernet
Mechanical			IEEE 802.3 u Fast Ethernet
Height	233mm		IEEE 802.1 p VLAN Tagging
Depth	160mm		IEEE 802.1 q Priority Queing
Width	50mm		IEEE 802.3 x Flow Control
Customer Interfaces			RFC1157 SNMP
Ethernet	12x 10/100 Base-T (RJ45)		RFC1213 MIB II
Management			RFC854 Telnet
Local	CLI via Console		RFC783 TFTP
Remote	CLI via Console Telnet, SNMP, Web Server, HPOV		EN60950 Safety
Security		EN55022 Class A Emissions	
	Dedicated VLAN, Password Protection, Management ACL	EN55024 Immunity	
Power		EN50082-2 Generic Immunity	
Power Supply	-20 to -72 VDC	EN300-386	
Feeds	Dual	Telecommunications Std	
Power Consumption	18W	EN61000-4-2 Electrostatic Discharge	
Alarm Contacts		EN61000-4-3 Radiated Susceptibility	
	2x Relay outputs with current carrying capacity of 1A @ 24V	EN61000-4-4 Electrical Fast Transistor	
MTBF		EN61000-4-5 Surge Burst	
	65 Years	EN61000-4-6 Conducted Susceptibility	
Environmental		EN60950	
Operating Temperature	-5 °C to +65 °C	ETS 300 019-1-1 Operational	
Relative Humidity	5-90% (Non-condensing)	ETS 300 019-1-2 Storage	
		ETS 300 019-1-3 Transport	



Head Office

9 Business Park Drive
Notting Hill, Victoria 3168
Australia
Tel: +61 3 95400330
Fax: +61 3 99236545

www.avaratechnologies.com

Regional Distributor

