

# OAP400 5-Port Managed DIN Rail Switch

The OAP400 is a ruggedised, din rail, managed, 5-Port layer 2 switch to deliver ethernet services in industrial applications.

The Avara OAP400 is a stand alone, DIN-rail, 5-port managed Ethernet switch that has been specifically designed to provide a compact solution for delivering Ethernet services over optical fibre in industrial applications.

The OAP400 provides 4x10/100 Base-T tributary interfaces and a single 100Base-FX uplink interface which can operate over single mode or multi-mode fibre.

The OAP400 delivers high performance Layer 2 Ethernet switching in a compact form factor. Tag based VLANs compliant with 802.1q are supported allowing network segmentation without being restricted by physical connections.

Quality of Service (QoS) compliant with 802.1p is available providing four queues for traffic prioritization. Queuing control mode can be configured as Strict or Weighted Round Robin (WRR) to ensure starvation does not occur.

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

To provide secured network access, the OAP400 supports MAC address allow lists to ensure that only trusted devices gain access to the network.

The OAP400 can be managed locally via the console port or remotely using Telnet, SNMP or Avara's Web Server over a secure VLAN.

When used in conjunction with the Avara DFX12SF product, the OAP400 can be managed using OAM (Operations, Administration & Maintenance) messages.

This feature allows the upstream DFX switch to act as a management proxy for the OAP400 device, resulting in Zero on site configuration, thus delivering a true "Plug and Go" solution. Full remote configuration and software download functionality reduces installation time and complexity.

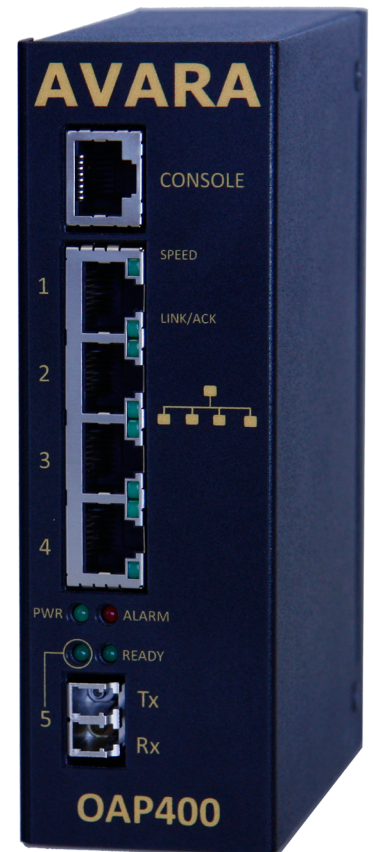
A comprehensive set of SNMP traps and alarms are provided to assist fault management and isolation.

The OAP400 is a low power device making it an ideal solution for solar powered deployments. Also further power savings can be made by individual port enable/disable via software.

The OAP400 also supports dual power feed functionality to enhance system availability.

## Technical Highlights

- 4 x 10/100Base-T
- 1 x 100Base-FX
- 802.1p, 802.1q
- Rate Limiting
- Support for 4096 VLANs
- RMON Counters
- MAC Address Allow Lists
- Remote Management via SNMP, Telnet, CLI, Web Server or OAM messages
- High MTBF
- Dual Power Feed
- 9-36 or 20-72 VDC Power Supply
- -5°C to +70°C Operation
- Fanless Operation
- Broadcast Storm Control



# Technical Specifications



<b>Model Order Code</b>	P21047.01 P21047.02	<b>Data Interface Security Features</b>	MAC Address Locking, Dedicated VLAN
<b>Mechanical</b> Height Depth Width	140mm 107mm 45mm	<b>Power</b> Operating Voltage  Power Feeds  Power Consumption	P21047.01: 20 to 72 VDC P21047.02: 9 to 36 VDC  Dual  2.8 - 4.5 W (depending on configuration)
<b>Enclosure</b>	IP30 protection DIN-Rail mounting	<b>Alarm Contacts</b>	2x Relay outputs with current carrying capacity of 1A @ 24V
<b>Customer Interfaces</b> Ethernet	4 x 10/100 Base-T (RJ45) 1 x 100 Base-FX (Duplex LC)	<b>Environmental</b> Operating Temperature Relative Humidity	-5 °C to +70 °C  5-90% (Non-condensing)
<b>Optical Network Interfaces</b> Dual Fibre Short Haul Wavelength TX Power RX Sensitivity RX Max Input Saturation	TX 1310nm / RX 1310nm 0 to -20 dBm -32 dBm  0dBm	<b>Standards</b>	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.1q VLAN Tagging IEEE 802.1p Priority Queuing IEEE 802.3x Flow Control RFC1157 SNMP RFC1213 MIB II RFC854 Telnet RFC783 TFTP EN60950 Safety EN55022 Class A Emissions EN55024 Immunity EN50082-2 Generic Immunity EN300-386 Telecommunications Std EN61000-4-2 Electrostatic Discharge EN61000-4-3 Radiated Susceptibility EN61000-4-4 Electrical Fast Transistor EN61000-4-5 Surge Burst EN61000-4-6 Conducted Susceptibility EN60950 ETS 300 019-1-1 Operational ETS 300 019-1-2 Storage ETS 300 019-1-3 Transport
<b>Management</b> Local Remote	CLI via Console RJ45 Telnet, SNMP, Web Server, OAM		
<b>Security</b>	Dedicated VLAN, Password Protection, Management ACL		
<b>Switch Parameters</b> Speed Autonegotiation Duplex MDI/MDIX Support IEEE 802.p/q Mac Address size VLANS supported Rate Limiting  Traffic shaping Priority Queues Per Output	10/100Base-T Yes Full/Half Yes Yes 8K 4096 128K, 256K, 512K, 1M, 2M, 4M, 8M Strict & Weighted Round Robin  4		



## Head Office

1/45 Normanby Road,  
Notting Hill, Victoria 3168  
Australia  
Tel: +61 3 95400330  
Fax: +61 3 99236545

[www.avaratechnologies.com](http://www.avaratechnologies.com)

## Regional Distributor

