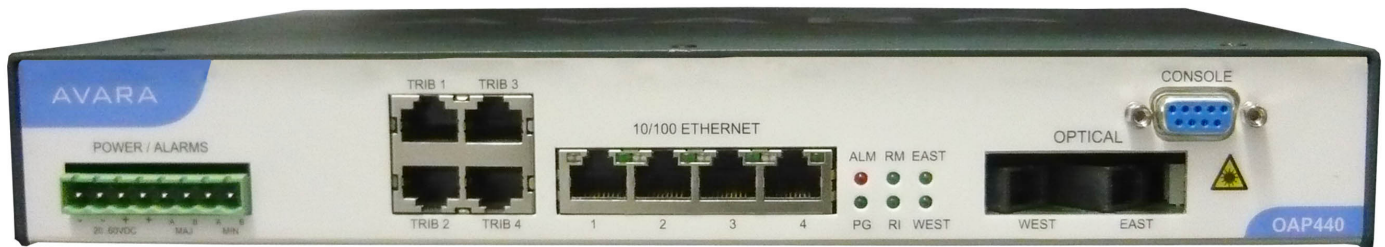# OAP440 Optical Access Point

The Avara OAP440 Optical Access Point is a highly reliable, feature rich and cost effective integrated access device with multiple broadband 10/100Base-T and narrowband E1 interfaces for use over single mode or multi mode optical fibre in point to point, linear or ring network topologies.

The Avara OAP440 is specifically designed to provide a compact solution for delivering switched Ethernet and 2Mbps G.703 circuits.

The OAP440 provides four 10/100Base-T, and four G.703/2M (balanced 120Ω) customer interfaces.
Each unit has two 100Mbps optical uplink interfaces.

These can be configured for protected point-to-point, linear or ring operation.

The maximum distance between nodes is 80km over single mode fibre and 3km over multimode fibre.
If greater distances are required, higher power options are available.

The OAP440 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 stacking is also supported allowing network designers more flexibility.

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

When the OAP440 is configured in a ring topology, E1's can be mapped between any port on any unit. The mapping of E1's is highly flexible and is achieved by configuring each of the and points. There is no need to configure each of the intermediate nodes.

In addition, the ring topology supports <50msec protection switchover in the event of a fibre break or intermediate node failures. The highly deterministic protection switchover capability is essential for transporting critical E1 traffic.

The OAP440 can be managed locally via the console port or remotely using Telnet, SNMP or Avara's Web Server over a secure VLAN.

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

Full remote configuration and software download functionality reduces installation requirements and time.

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

Technical Highlights

- 4 x 10/100Base-T
- 4 x G.703/2M Balanced
- Multi-mode or Single-mode Fibre
- 802.1q, 802.1p
- Rate Limiting on Ethernet Ports
- Management via SNMP, Telnet, CLI
- -20 to -72 VDC Power Supply
- -5°C to +65 °C operation

Technical Specifications

Model Order Code	Contact sales for details
Mechanical Height Depth Width	 45mm 340mm 210mm
Customer Interfaces Ethernet E1	 4x 10/100Base-T (RJ45) 4x G.703/2M 120 ohm (RJ45)
Optical Network Interfaces Single Fibre Short Haul Wavelength TX Power RX Sens Single Fibre Long Haul Wavelength TX Power RX Sens Dual Fibre Short Haul TX Power RX Sens Dual Fibre Long Haul TX Power RX Sens Dual Fibre Long Haul (1550) TX Power RX Sens	 1550/1310nm -8 to -14dBm -31dBm 1550/1310nm 0 to -8dBm -34dBm 1310nm 0 to -20dBm -32dBm 1310nm 0 to -5dBm -35dBm 1550nm +5 to 0dBm -35dBm
Network Topology Protection Switch Time	Point-to-Point with Optional 1+1 Redundancy Linear Network Ring Network < 50ms
Management Local Remote	 CLI via Console Telnet, SNMP, Web Server
Security	Dedicated VLAN, Password Protection Management ACL

Power	
Power Supply Power Consumption	-20 to -72 VDC 10W
Alarm Contacts	2x Relay outputs with current carrying capacity of 1A @ 24V
Environmental Operating Temp. Relative Humidity	 -5°C to +65°C 5 - 90% (Non-condensing)
Standards	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.1p VLAN Tagging IEEE 802.1q Priority Queing IEEE 802.3x Flow Control RFC1157 SNMP RFC1213 MIB II RFC854 Telnet RFC783 TFTP EN60950 Safety 41003 Laser Safety AS/ACIF S016 EN55022 Class A Emissions EN55024 Immunity EN50082-2 Generic Immunity EN60825-1 Class 1 ITU-T G.703 ITU-T G.821 ITU-T G.823 ITU-T K.20 ETS 300 019-1 Environment ETS 300 019 -1-1 Storage ETS 300 019 -1-2 Operational ETS 300 019 -1-3 Transport

Quality
ISO 9001

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AT-REV.2.07-07B S:Revision:: 1S