

# Avvio Networks

## AM2540 8 port 1GbE to 10GbE switch

### Supports VLAN and VMAN tagging

Avvio Networks' AM2540 Ethernet switch is an optical edge device that can be used as an 8-port Gigabit Ethernet switch or it can be used to aggregate up to 8 Gigabit Ethernet interfaces into a 10Gb Ethernet interface. The AM2540 is designed for use in Avvio Networks' AM2050, AM2500 and AM2600 Chassis.

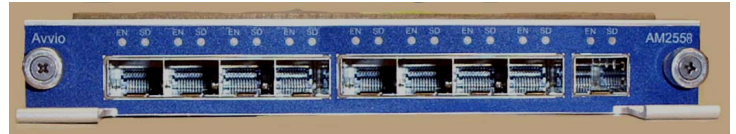
The AM2540 features wire-speed performance on all ports and Jumbo frame support, VLAN tagging and VMAN (double) tagging on a per-port basis. A Metropolitan Area Network typically carries data from numerous LANS. It is possible, even probable that LAN operators have overlapping VLAN tags. Double tagging eliminates this problem entirely. VMAN tags are only used in the MAN; they are added on ingress to the AM2540 and stripped on egress from the AM2540.

The AM2540 also provides non-intrusive RMON and SNMP monitoring and can be configured to trigger alarms based on a number of error conditions.

Multiple AM2540s can be "stacked" together in an AM2500 chassis to form a larger Ethernet switch in a single Chassis.

The Gigabit ports utilize user-accessible SFP transceivers available from Avvio Networks. The SFPs provide per-port interface flexibility and are available at 850nm and 1310nm wavelengths.

The AM2540 is managed via the AM2502 controller card, with SNMP, console and Telnet interfaces.



### Features

Add VLAN tags to Ethernet packet

Add VMAN (Q-in-Q) tags for  
Wide Area Networking

Non-Blocking wire speed performance

Jumbo Frame Support

Full Duplex Flow Control

Per port rate limiting  
in megabit increments

RMON and SNMP  
Performance Monitoring

The AM2540 Ethernet switch is a member of Avvio Networks' family of intelligent optical networking products. For more information, please send an email to: [sales@avvionetworks.com](mailto:sales@avvionetworks.com). Avvio Networks is a trademark of Avvio Networks.

Avvio Networks' advanced optical networking products set the standard for a new breed of cost-effective networks and services.

Avvio Networks  
19 Crosby Dr  
Suite 125  
Bedford, MA 01730  
(781) 271-0002

email:  
[sales@avvionetworks.com](mailto:sales@avvionetworks.com)  
[www.avvionetworks.com](http://www.avvionetworks.com)

## Technical Specifications

### System Level

Data Rates	1Gb Ethernet and 10Gb Ethernet
Rate Control	To 1Mb/s
Flow Control	Full Duplex
Speed	Wire Speed on all ports

### 1Gb Ethernet Interface (Client)

Options:	850nm, 1310nm
Receiver sensitivity (SR)	Depends on selected interface
Transmitter	Depends on selected interface

### System Management (Via AM2502 Controller Card)

Remote management	SNMP, RMON, Telnet
Local management	Craft/Console port

### Power Requirements

Power Input	-40 to -70VDC (-48VDC nom)
Power Consumption	30W typical, 50W maximum

### Environmental

Operating Temperature, Relative Humidity, Vibration, Shock and Flammability	Designed to comply with Bellcore NEBS (GR63) TR-NWT-0000-63
EMI, EMC	Complies with FCC part 15 class A, UL950 and CE, GR-1089

### Dimensions

Chassis size	~6" X 9" X 1" 1 slots in A2500 chassis (2 slots with redundant 10G interface)
--------------	---

Note: these specifications are subject to change without notice  
Copyright © 2005-2010 Avvio Networks. All rights reserved. Avvio Networks is a trademark of Avvio Networks  
Lit number: AM2540.5