

## VFAST™ Ethernet Interconnect

### VFAST OC3 Ethernet Converter

Nebula's VFAST Ethernet Interconnect family of products allows service providers to take advantage of available DS3 or OC3 facilities to extend Ethernet services to off-net customers and to cost-effectively open new markets. By installing Nebula's VFAST OC3 Ethernet Converter product in the carrier's collocation office and customer premise, service providers can use available fiber circuits to extend high bandwidth Ethernet services, such as IP VLANS and LAN interconnect, to customers located off-net.

In addition, by deploying VFAST Interconnect with OC3 circuits, service providers can enter a new market with low upfront investment, avoiding the risk and delayed profitability of deploying a full optical solution in a new market. With Nebula's VFAST Interconnect system, service providers can expand services and markets profitably, one customer at a time.

The VFAST OC3 Ethernet Converter delivers 100 Mbps Ethernet over OC3 facilities. The VFAST OC3 Ethernet Converter uses Nebula's proven EtherOptic platform and offers:

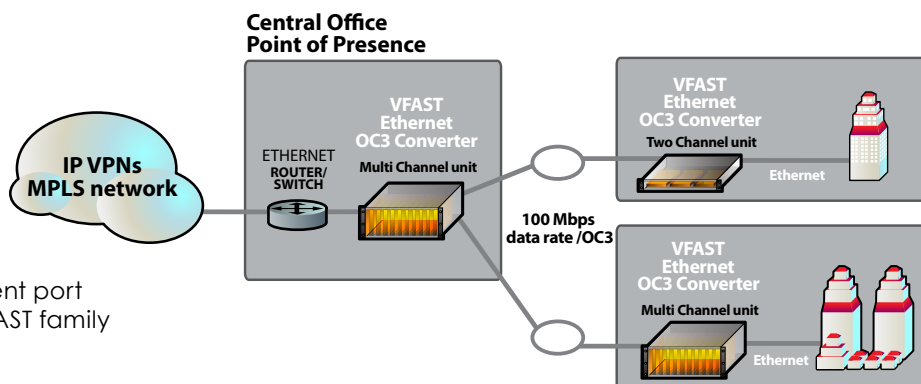
- Highly reliable communication links,
- Integrated management using a dedicated management port for SNMP configuration and status monitoring,
- Plug-and-play architecture for non-intrusive deployment, and
- Incremental provisioning for profitable growth.

The VFAST Ethernet Interconnect products also include the VFAST DS3 Ethernet Converter which converts 100 Mbps Ethernet to DS3, providing up to 45 Mbps data rates over DS3 facilities.



### VFAST OC3 Converter Highlights

- 100 Mbps /OC3
- Carrier grade
- Dedicated management port
- Shares cabinet with VFAST family



## VFAST Ethernet OC3 Interconnect Technical Specifications

OC3 Ethernet Converter		
<b>Effective Data Rate</b>	100 Mbps	
<b>Data Traffic Management</b>	x.86 Ethernet-SONET map	
<b>Latency</b>	120 $\mu$ sec	
<b>Parameters</b>	Max/Min optical output    +3/0 dBm Max receive Input            0 dBm Receive damage level        +3 dBm Receive Sensitivity           -35 dBm	
<b>Connections</b>	<ul style="list-style-type: none"> <li>• 1 duplex SC fiber</li> <li>• 2 RJ45 twisted pair ports</li> </ul> 2nd port for IP configuration and monitoring	
<b>Indicators</b>	OC3 Link	Link condition Synch confirm Loss of signal Alarm Indication
	LAN Interface	Link/Activity    Duplex
	Management Interface	Link/Activity    Collision
	OC3 Facility	Loop back Remote defect Master clock Power
<b>Option Settings</b>	<ul style="list-style-type: none"> <li>• Network (TFTP) server</li> <li>• Factory settings reset</li> <li>• Autonegotiate on</li> </ul> <ul style="list-style-type: none"> <li>• Static/Dynamic IP</li> <li>• Line build out (&lt;225' or &lt;450')</li> <li>• Internal/External clock</li> </ul>	
<b>IP Features</b>	SNMP managed device	
<b>Signaling</b>	Framing	OC3c
	Line code	LVPECL-NRZ
	Line rate	155.52 Mbps
<b>Power</b>	Power source	12V or -48V (redundant) DC
	Power consumption	3.5 W
<b>Environmental</b>	Operating temperature	-40 to 150° F (-40 to 65° C)
	Humidity (relative)	10–90% non-condensing
<b>Dimensions</b>	2 slot (0.8 inches) wide, 3U (5 1/4 inches) high, 7.3 inches deep	
<b>Applicable Standards</b>	ANSI	T1.102, T1.107
	ITU-T	G.775, G.824
	IEEE	802.3, 802.3u, 802.3x
	Telcordia	GR-253-CORE, GR-499-CORE
	Bellcore	TR-TSY-00009, TR-62415