

# Cisco ONS 15530 8-Port Fibre Channel/ Gigabit Ethernet Aggregation Card

The Cisco® ONS 15530 8-port Fibre Channel/Gigabit Ethernet Aggregation Card for the Cisco ONS 15530 DWDM Multiservice Aggregation Platform provides efficient wavelength usage by aggregating up to eight Fibre Channel, fiber connectivity (FICON), or Gigabit Ethernet signals onto a single 10 Gbps wavelength. This enhances the Cisco ONS 15530, making it ideal for high-density storage and data-networking applications.

**Table 1** Key Benefits

Key Benefits
<p><b>High-density service aggregation</b>—Provides industry-leading aggregation capabilities of up to 8 Fibre Channel, FICON, or Gigabit Ethernet services per 10 Gbps ITU (International Telecommunication Union) wavelength or up to 2 services per 2.5 Gbps ITU wavelength. When used with a 32-wavelength system, such as the Cisco ONS 15540, up to 256 Fibre Channel, FICON, or Gigabit Ethernet services can be supported per fiber pair.</p>
<p><b>Investment protection</b>—Provides customers with investment protection by allowing support of both low-density and high-density deployments with the same aggregation card in conjunction with 2.5 Gbps or 10 Gbps ITU trunk cards. Support for a mix of Fibre Channel, FICON, and Gigabit Ethernet allows the network to grow and evolve with customer requirements.</p>
<p><b>Scalability</b>—Supports the ability to scale the network as new services are added. As a customer's network grows, Fibre Channel, FICON, and Gigabit Ethernet services can be easily added to a Cisco ONS 15530 network without service interruption.</p>
<p><b>Protection options</b>—Offers several options for customers requiring an enhanced level of service availability including service-level client protection.</p>
<p><b>Performance monitoring</b>—Offers digital performance monitoring providing customers added visibility into protocol statistics in addition to optical signal performance.</p>
<p><b>Certifications</b>—Fully compatible with storage solutions from Cisco partners, including IBM GDPS, EMC SRDF, HP/Compaq DRM, HDS TrueCopy, allowing customers the flexibility of deploying the Cisco ONS 15530 platform in many different storage environments.</p>
<p><b>Storage applications</b>—Aggregation of multiple Fibre Channel and FICON services for storage networking applications such as business continuance, disaster recovery, disk mirroring, and storage-area network (SAN) extension.</p>
<p><b>Data networking</b>—Provides metro Gigabit Ethernet services over a scalable metro dense wave division multiplexing (DWDM) backbone for high-bandwidth intercampus networking applications over 2.5 Gbps or 10 Gbps wavelengths. By networking IP traffic end-to-end in its native Ethernet format at wire speed and with full operations, administration, and management (OAM) capabilities, enterprises can avoid the added complexity and cost of protocol conversion and rate adaptation into another metropolitan-area network (MAN) or wide-area network (WAN) protocol.</p>

Figure 1  
Cisco ONS 15530 8-Port  
Fibre Channel/ Gigabit  
Ethernet Aggregation  
Card





## Specifications

**Table 2** Optical Specifications Client

Client				
	Cisco 15500-XVRA-03B1 (Single-Mode SFP optics)		Cisco 15500-XVRA-02C1 (Multimode SFP optics)	
<b>Fiber/data rates supported</b>	1310 nm Single Mode Gigabit Ethernet/Fibre Channel/ FICON 1 Gbps		850 nm Multimode Gigabit Ethernet/Fibre Channel/ FICON 1 Gbps	
<b>Connector type</b>	Duplex LC		Duplex LC	
<b>Fiber type</b>	SMF 9		MM 50/62.5	
<b>Receiver specification</b>	Minimum	Maximum	Minimum	Maximum
<b>Receiver sensitivity</b>	-20.5	-	-18 dBm	-
<b>Receiver overload</b>	-	-3 dBm	-	0 dBm
<b>Input wavelength</b>	1270 nm	1600 nm	770 nm	860 nm
Client				
	Cisco 15500-XVRA-03B1		Cisco 15500-XVRA-02C1	
<b>Transmitter Specification</b>	Minimum	Maximum	Minimum	Maximum
<b>Transmitter power</b>	-	-3 dBm	-	-4 dBm
<b>Output wavelength</b>	1275 nm	1350 nm	830 nm	860 nm

**Table 3** Specifications

Client Ports (pluggable optics)	Configuration Options	Specifications
<ul style="list-style-type: none"> <li>• Up to 8 pluggable optics               <ul style="list-style-type: none"> <li>- Single-mode and multimode options (Table 2)</li> <li>- Bit rate: Up to 1.25 Gbps/port</li> <li>- Connector type: Duplex LC</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Up to 4 cards per chassis</li> <li>• Compatible in slots 1-4 and slots 7-10</li> </ul>	<ul style="list-style-type: none"> <li>• Dimensions (H x W x D): 10.4 in. x 1.105 in. x 8.797 in.</li> <li>• Bit error rate: <math>1 \times 10^{-15}</math></li> <li>• Digital monitoring</li> </ul>

**Table 4** Ordering Information

Product Code	Product Description	Minimum Cisco IOS® Software
<b>15530-FCGE-8P</b>	Cisco ONS 15530 8-port Fibre Channel/Gigabit Ethernet Aggregation Card	S15530C-12112EV
<b>15500-XVRA-03B1</b>	1 Gbps GE/FC 1310 nm Single-Mode Pluggable Optics	S15530C-12112EV
<b>15500-XVRA-02C1</b>	1 Gbps GE/FC 850 nm Multimode Pluggable Optics	S15530C-12112EV

\* CLEI codes are available upon request

For more information about the individual modules available with the Cisco ONS 15530 platform, please refer to the Cisco ONS 15530 technical specifications, available at:

<http://www.cisco.com/en/US/products/hw/optical/ps2011/ps4002/index.html>



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