

DATA SHEET

CISCO ONS 15530 4-PORT 1-GBPS/2-GBPS FIBRE CHANNEL AGGREGATION CARD

The Cisco® ONS 15530 4-Port 1-Gbps/2-Gbps Fibre Channel Aggregation Card for the Cisco ONS 15530 DWDM Multiservice Aggregation Platform provides efficient wavelength usage by aggregating up to four 2-Gbps Fibre Channel, IBM Fiber Connection (FICON), and IBM Intersystem Channel (ISC) services onto a single 10-Gbps wavelength. This enhancement makes the Cisco ONS 15530 the ideal solution for next-generation, high-density SAN extension applications.

Figure 1 shows the Cisco ONS 15530 4-Port 1-Gbps/2-Gbps Fibre Channel Aggregation Card.

Figure 1

Cisco ONS 15530 4-Port 1-Gbps/2-Gbps Fibre Channel Aggregation Card



KEY BENEFITS

Table 1. Benefits of Cisco ONS 15530 DWDM Multiservice Aggregation Platform with 4-Port 1-Gbps/2-Gbps Fibre Channel Aggregation Card

High-density service aggregation	Provides industry-leading aggregation capabilities of up to 4 2-Gbps Fibre Channel, FICON, and ISC-3 services per 10-Gbps ITU wavelength. When used with a 32-wavelength system, such as the Cisco ONS 15540, up to 128 2-Gbps Fibre Channel/FICON/ISC-3 services can be supported per fiber pair.
Investment protection	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 1-Gbps and 2-Gbps Fibre Channel, FICON, and ISC-1/ISC-3 as well as ESCON and Gigabit Ethernet (GE) aggregation provided by other Cisco ONS 15530 aggregation cards allows the network to grow and evolve with customer requirements.
Scalability	Supports the ability to scale the network without service interruption as new 2-Gbps Fibre Channel, FICON, and ISC-3 services are added.
Extended distances	Based on advanced buffer-to-buffer credit-spoofing technology, the Cisco ONS 15530 significantly increases the distance supported for a disaster recovery solution based on 2-Gbps Fibre Channel, FICON, and ISC-3 protocols up to 320 km over a DWDM metropolitan-area network (metro).
Protection options	Offers several options for customers requiring an enhanced level of service availability including service-level client protection.
Performance monitoring	Offers digital performance monitoring, providing customers added visibility into protocol statistics in

	addition to optical-signal performance.
Storage application	Aggregation of multiple 2-Gbps Fibre Channel, FICON, and ISC-3 service for storage networking applications such as business continuance, disaster recovery, disk mirroring, and storage area network (SAN) extension.
Certifications	Fully compatible with storage solutions from Cisco partners, including IBM Geographically Dispersed Parallel Sysplex (GDPS), EMC Symmetrix Remote Data Facility (SRDF), HP/Compaq Data Replication Manager (DRM), HDS TrueCopy, allowing customers the flexibility of deploying the Cisco ONS 15530 platform in many different storage environments.

SPECIFICATIONS

Table 2 and 3 list specifications for the Cisco ONS 15530 4-Port 1-Gbps/2-Gbps Fibre Channel Aggregation Card.

Table 2. Optical Specification

	15454-SFP-GEFC-SX		15500-XVRA-11B1		15500-XVRA-12B1	
Data Rate Supported	Fibre Channel/FICON/ISC-1/ISC-3 (1-Gbps and 2-Gbps) and Gigabit Ethernet		Midband variable rate 200 Mbps to 1.25-Gbps (1-Gbps Fibre Channel/FICON/ISC-1)		Highband variable rate 1.062-Gbps to 2.488-Gbps (1-Gbps and 2-Gbps Fibre Channel/FICON/ISC-1/ISC-3)	
Wavelength	850 nm multimode		1310 nm single mode		1310 nm single mode	
Connector Type	Duplex LC		Duplex LC		Duplex LC	
Fiber Type	Multimode 50/62.5		Single-mode 9		Single-mode 9	
Receiver						
Specification	Min	Max	Min	Max	Min	Max
Receiver sensitivity	-18 dBm		-19 dBm		-18 dBm	
Receiver overload		0 dBm		-3 dBm		-3 dBm
Input wavelength	770 nm	860 nm	1100 nm	1600 nm	1100 nm	1600 nm
Transmitter						
Specification	Min	Max	Min	Max	Min	Max
Transmit power	-9 dBm	-3.5 dBm	-11 dBm	-3 dBm	-10 dBm	-3 dBm
Output wavelength	830 nm	860 nm	1285 nm	1345 nm	1266 nm	1360 nm

Table 3. Specifications

Client Ports (Pluggable optics)	Configuration Options	Specifications
Up to 4 pluggable optics <ul style="list-style-type: none"> • Single-mode and multimode options (Table 2) • Bit rate: Up to 2.125 Gbps per port • Connector type: Duplex LC 	Up to 4 cards per chassis Compatible in slots 1–4 and slots 7–10	Dimensions (H x W x D): 10.4 in. x 1.162 in. x 8.958 in. Bit error rate: 1×10^{-15} Digital monitoring: 1-Gbps and 2-Gbps Fibre Channel, FICON, ISC-1, and ISC-3

Table 4 lists the ordering information for the ONS 15530 4-Port 1-Gbps/2-Gbps Fibre Channel Aggregation Card.

Table 4. Ordering Information

Product Code	Description	Minimum Cisco IOS® Software Release
15530-FC-4P	Cisco ONS 15530 4-Port 1-Gbps/2-Gbps Fibre Channel Aggregation Card	SO530C-12223SV
15454-SFP-GEFC-SX	Small Form-Factor Pluggable (SFP) – 1-Gbps GE/Fibre Channel/FICON, 850 nm multimode with LC	SO530C-12223SV
15500-XVRA-11B1	SFP – Midband variable rate multimode with LC	SO530C-12223SV
15500-XVRA-12B1	SFP – Highband variable rate single-mode with LC	SO530C-12223SV

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