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Модуль Cisco Catalyst WS-X6816-10G-2T

WS-X6816-10G-2T

Описание

Линейный модуль Cisco Catalyst WS-X6816-10G-2T представляет собой 16ти портовый модуль 10Гбит с возможностью подключения оптических соединений. Коммутационная фабрика формата 2x20Гбит позволяет осуществлять «переподписку» с отношениями 1:1 при использовании 4 портов и 4:1 при использовании всех доступных 16 портов.

Основные особенности

- 16 x 10 Gbps, X2
- Переподписка 4:1
- Подключение к фабрике - 40 Gbps
- 180 x 10 Gbps (360 x 10 Gbps - VSS)
- Поддержка DFC4/DFC4XL
- Поддержка L2-4 Jumbo Frame (9216 байт)
- Поддержка SFP+ через OneX - адаптер (CVR-X2-SFP10G)

Feature	16-port 10GbE Fiber Module
Ports	16
Optics	X2
Switch fabric connection	2 x 20 Gbps (40 Gbps total)
Oversubscription	4:1 16 ports (oversubscription mode)



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Feature	16-port 10GbE Fiber Module 1:1 4 ports (performance mode)
Forwarding engine	• WS-X6816-10G-2T: comes equipped with DFC4 for distributed forwarding, supporting 256K forwarding entries, increased ACL entries to 64K, increased Netflow entries to 512K and increased IPv4 forwarding speed to 60 Mpps • WS-X6816-10G-2TXL: equipped with DFC4XL for distributed forwarding, supporting 1 million forwarding entries, increased ACL entries to 256K, increased Netflow entries to 1024K and increased IPv4 forwarding speed to 60 Mpps • Increased performance of up to 60Mpps for L2, IPv4 and MPLS forwarding and up to 30Mpps for IPv6 forwarding • Support for 16K Bridge Domains, allowing the standard 4K VLANs to be reused across these bridge domains, effectively increasing the number of VLANs available in the system • Increased MAC Address Table to 128K • Increased multicast routes to 256K • IGMPv3 snooping in hardware • PIM registers in hardware • IPv6 MLDv2 snooping in hardware



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Feature	16-port 10GbE Fiber Module •
	IPV4 & IPv6 in IPv6 tunnelling • IPv6 in IPv4 tunneling ISATAP, 6to4, GRE) • QoS support for uniform, short pipe and pipe mode tunnel • Terminate the tunnel in the same loopback
Queues	Oversubscription mode: • Receive: 1p7q2t per port • Transmit: 1p7q4t per port group Performance mode: • Receive: 8q4t per port • Transmit: 1p7q4t per port
Queuing mechanisms	• Class of Service (CoS) based queue mapping • (Differentiated Service Code Point (DSCP) based queue mapping
Scheduler	Oversubscription mode:



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Feature	16-port 10GbE Fiber Module
	• Deficit Weighted Round Robin (DWRR) • Weighted Random Early Detection (WRED) Performance mode: • DWRR • WRED • Shaped Round Robin (SRR) at egress
Port buffers	Oversubscription mode: • 90 MB per port group Performance mode: • 256 MB per port (128 MB for ingress and 128 MB for egress)
Hardware-based multicast replication	• Ingress and Egress replication-mode • Approximately 20 Gbps per replication engine • 2 replication engines per module



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Feature Jumbo frame support for bridged and routed packets	16-port 10GbE Fiber Module Up to 9216 bytes
Maximum port density per chassis	176 ports (6513-E chassis) 128 ports (6509-E chassis)
Maximum port density per VSS	352 ports
Can be used to form virtual switch link	• Performance mode: Yes ◦ Up to 4 10 Gigabit Ethernet ports can be used for virtual switch link • Oversubscription mode: No
Supervisor engines supported	Catalyst® 6500 Supervisor Engine 2T and 2TXL
Chassis supported	• Any Cisco Catalyst 6500 E-Series chassis, including 6503-E, 6504-E, 6506-E, 6509-E, 6509-V-E (NEBS compliant) and 6513-E chassis • Not supported in non-E Series chassis
Slot requirements	• Can occupy any slot in any Cisco Catalyst 6503-E, 6504-E, 6506-E, 6509-E or 6509-V-E or chassis • Can occupy slots 1-6 and 9-13 in a Cisco Catalyst 6513-E chassis



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Feature Onboard memory	16-port 10GbE Fiber Module 1 GB default
Cabling Supported	10GBASE-CX4, -SR, -LRM, -LX4, -LR, -ZR and -ER X2 fiber modules and 10GBASE-T

Общие

Тип устройства

Карты расширения

Линейка Cisco

Catalyst 6500, 6500-E

Совместимая платформа

Шасси WS-C6503-E
Шасси WS-C6504-E
Шасси WS-C6506-E
Шасси WS-C6509-E
Шасси WS-C6509-V-E
Шасси WS-C6513-E
Шасси C6807-XL

Поддерживаемый тип интерфейсов модульного коммутатора

Интерфейсы 10GBase-X X2

Совместимость с управляющими модулями

C6800-SUP6T
VS-S2T-10G
VS-S2T-10G-XL