



## Модуль Cisco Catalyst WS-X6816-10G-2TXL

WS-X6816-10G-2TXL

### Описание

Линейный модуль Cisco Catalyst WS-X6816-10G-2TXL 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)



Feature	16-port 10GbE Fiber Module
<b>Oversubscription</b>	4:1 16 ports (oversubscription mode)
	1:1 4 ports (performance mode)
<b>Forwarding engine</b>	<ul style="list-style-type: none"><li>• 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</li><li>• 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</li><li>• Increased performance of up to 60Mpps for L2, IPv4 and MPLS forwarding and up to 30Mpps for IPv6 forwarding</li><li>• 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</li><li>• Increased MAC Address Table to 128K</li><li>• Increased multicast routes to 256K</li><li>• IGMPv3 snooping in hardware</li><li>• PIM registers in hardware</li></ul>



<b>Feature</b>	<ul style="list-style-type: none"><li>• <b>16-port 10GbE Fiber Module</b></li></ul> IPv6 MLDv2 snooping in hardware
	<ul style="list-style-type: none"><li>•</li></ul> IPV4 & IPv6 in IPv6 tunnelling <ul style="list-style-type: none"><li>•</li></ul> IPv6 in IPv4 tunneling (SATAP, 6to4, GRE) <ul style="list-style-type: none"><li>•</li></ul> QoS support for uniform, short pipe and pipe mode tunnel <ul style="list-style-type: none"><li>•</li></ul> Terminate the tunnel in the same loopback
<b>Queues</b>	Oversubscription mode: <ul style="list-style-type: none"><li>•</li></ul> Receive: 1p7q2t per port <ul style="list-style-type: none"><li>•</li></ul> Transmit: 1p7q4t per port group  Performance mode: <ul style="list-style-type: none"><li>•</li></ul> Receive: 8q4t per port <ul style="list-style-type: none"><li>•</li></ul> Transmit: 1p7q4t per port
<b>Queuing mechanisms</b>	<ul style="list-style-type: none"><li>•</li></ul> Class of Service (CoS) based queue mapping <ul style="list-style-type: none"><li>•</li></ul> (Differentiated Service Code Point (DSCP) based queue mapping



Feature	16-port 10GbE Fiber Module
<b>Scheduler</b>	Oversubscription mode: <ul style="list-style-type: none"><li>• Deficit Weighted Round Robin (DWRR)</li><li>• Weighted Random Early Detection (WRED)</li></ul> Performance mode: <ul style="list-style-type: none"><li>• DWRR</li><li>• WRED</li><li>• Shaped Round Robin (SRR) at egress</li></ul>
<b>Port buffers</b>	Oversubscription mode: <ul style="list-style-type: none"><li>• 90 MB per port group</li></ul> Performance mode: <ul style="list-style-type: none"><li>• 256 MB per port (128 MB for ingress and 128 MB for egress)</li></ul>
<b>Hardware-based multicast replication</b>	<ul style="list-style-type: none"><li>• Ingress and Egress replication-mode</li><li>• Approximately 20 Gbps per replication engine</li><li>•</li></ul>



<b>Feature</b>	<b>16-port 10GbE Fiber Module</b> 2 replication engines per module
<b>Jumbo frame support for bridged and routed packets</b>	Up to 9216 bytes
<b>Maximum port density per chassis</b>	176 ports (6513-E chassis)  128 ports (6509-E chassis)
<b>Maximum port density per VSS</b>	352 ports
<b>Can be used to form virtual switch link</b>	<ul style="list-style-type: none"><li>• Performance mode: Yes</li><li>◦ Up to 4 10 Gigabit Ethernet ports can be used for virtual switch link</li><li>• Oversubscription mode: No</li></ul>
<b>Supervisor engines supported</b>	Catalyst® 6500 Supervisor Engine 2T and 2TXL
<b>Chassis supported</b>	<ul style="list-style-type: none"><li>• 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</li><li>• Not supported in non-E Series chassis</li></ul>
<b>Slot requirements</b>	<ul style="list-style-type: none"><li>• Can occupy any slot in any Cisco Catalyst 6503-E, 6504-E, 6506-E, 6509-E or 6509-V-E or chassis</li><li>•</li></ul>



<b>Feature</b>	Can occupy slots 1-6 and 9-13 in a Cisco Catalyst 6513-E chassis <b>16-port 10GbE Fiber Module</b>
<b>Onboard memory</b>	1 GB default
<b>Cabling Supported</b>	10GBASE-CX4, -SR, -LRM, -LX4, -LR, -ZR and -ER X2 fiber modules and 10GBASE-T

## Общие

Тип устройства

Линейка Cisco

Совместимая платформа

Поддерживаемый тип интерфейсов модульного коммутатора

Совместимость с управляющими модулями

Карты расширения

Catalyst 6500, 6500-E

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

Интерфейсы 10GBase-X X2

C6800-SUP6T

VS-S2T-10G

VS-S2T-10G-XL