

# Cisco SM-X Layer 2/3 EtherSwitch Service Module

Switch - Managed - 16 x 10/100/1000 (PoE+) - plug-in module - PoE+



Group	Network Equipment
Manufacturer	Cisco
Manufacturer item no.	SM-X-ES3-16-P=
EAN/UPC	0882658607318

## Description

The Cisco SM-X Layer2/3 EtherSwitch Service Module helps ensure maximum availability, high performance, ease of upgrade, and expandability. The modules have their own processors, switching engines, and flash memory that run independently of host router resources, helping ensure maximum concurrent switching and routing performance as well as providing integrated PoE+, security, and increased ease of management.

As users attempt network access through the Cisco Enhanced EtherSwitch Service Module, the module can use IEEE 802.1x and a large number of Cisco 802.1x extensions to validate the credentials of the end device and place the user in the appropriate VLAN or Cisco TrustSec group. As the end-user data traverses between the switch module and other network entities or between buildings, this traffic can be encrypted at Layer 2 using MACsec.

## Main features

Product Description	Cisco SM-X Layer 2/3 EtherSwitch Service Module - switch - 16 ports - Managed - plug-in module
Device Type	Switch - 16 ports - Managed
Enclosure Type	Plug-in module
Subtype	Gigabit Ethernet
Ports	16 x 10/100/1000 (PoE+)
Power Over Ethernet (PoE)	PoE+
Capacity	Virtual interfaces (VLANs): 255
Remote Management Protocol	Telnet, SNMP 3, SSH
Features	Layer 2 switching, DHCP snooping, Access Control List (ACL) support, Dynamic ARP Inspection (DAI), Cisco EnergyWise technology, Unicast Reverse Path Forwarding (URPF)
Compliant Standards	IEEE 802.3af, IEEE 802.1x, IEEE 802.3at
Dimensions (WxDxH)	20.6 cm x 20.7 cm x 4 cm
Weight	0.9 kg

## Extended details

<b>General</b>	
Device Type	Switch - 16 ports - Managed
Enclosure Type	Plug-in module
Subtype	Gigabit Ethernet
Ports	16 x 10/100/1000 (PoE+)
Power Over Ethernet (PoE)	PoE+
Capacity	Virtual interfaces (VLANs): 255
Remote Management Protocol	Telnet, SNMP 3, SSH
Authentication Method	Kerberos, Secure Shell (SSH)
Features	Layer 2 switching, DHCP snooping, Access Control List (ACL) support, Dynamic ARP Inspection (DAI), Cisco EnergyWise technology, Unicast Reverse Path Forwarding (URPF)
Compliant Standards	IEEE 802.3af, IEEE 802.1x, IEEE 802.3at
<b>Expansion / Connectivity</b>	
Interfaces	16 x 1000Base-T RJ-45 PoE+ - 30 W
<b>Software / System Requirements</b>	
Software Included	Cisco IOS LAN Base
<b>Dimensions &amp; Weight</b>	
Width	20.6 cm
Depth	20.7 cm
Height	4 cm
Weight	0.9 kg
<b>Environmental Parameters</b>	
Min Operating Temperature	0 °C
Max Operating Temperature	40 °C
Humidity Range Operating	5 - 85%
Min Storage Temperature	-20 °C
Max Storage Temperature	65 °C
Humidity Range Storage	5 - 95%

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