



24-port Ethernet + 2 TP/SFP Gigabit Dual Media Layer2 Managed Switch



















#### Features >>>>

- 2 Dual Media for Flexible Fiber Connection
- Supports Q-in-Q (Double-tag)
- IEEE802.1X Access Control improves network security
- Unknown Unicast/Broadcast/Multicast storm control
- IP-MAC-port binding for LAN security
- ACL Based on Ethernet Type/ARP/IPv4 for packets permit or Multicast VLAN management for IPTV deny, rate limitation and port copy
- Supports LLDP (Link Layer Discovery Protocol) provides a standards-based method for enabling switches to advertise themselves.
- Port Mirroring helps supervisor monitoring network
- IEEE802.1Q tag-based VLAN for performance & security
- IEEE802.1D Compatible, IEEE802.1w Rapid Spanning Tree & IEEE802.1s
- Multiple Spanning Tree
- QCL Based on Application traffic for QoS and rate
- Supports DHCP snooping (DHCP option 82)
- Supports "power saving" for Green Ethernet requirement
- Supports IGMPv3 snooping and IGMP Proxy

#### **!** Introduction

MSM-6226 is a L2 Managed Switch that meets all IEEE 802.3/u/x/z Gigabit, Fast Ethernet and Ethernet specifications. It provides 24 Fast Ethenret ports (10/100 Mbps TP) and 2 Gigabit dual media ports with TP/SFP (or GBIC).

The switch can be managed through RS-232 serial port via direct connection, or through Ethernet port using Telnet or Web-Based management unit, associated with SNMP agent. With the SNMP agent, the network administrator can logon the switch to monitor, configure and control each port activity in a friendly way. The overall network management is enhanced and the network efficiency is also improved to accommodate high bandwidth applications. In addition, the switch features comprehensive and useful function such as DHCP Option 82, QoS (Quality of Service), Spanning Tree, VLAN, Port Trunking, Bandwidth Control, Port Security, SNMP/RMON and IGMPv3 Snooping capability via the intelligent software. It is suitable for both Metro-LAN and office application.

The switch also supports the power saving to reduce the power consumption with Power Management technique. It could efficiently saving the switch power by auto detect the client idle and cable length.

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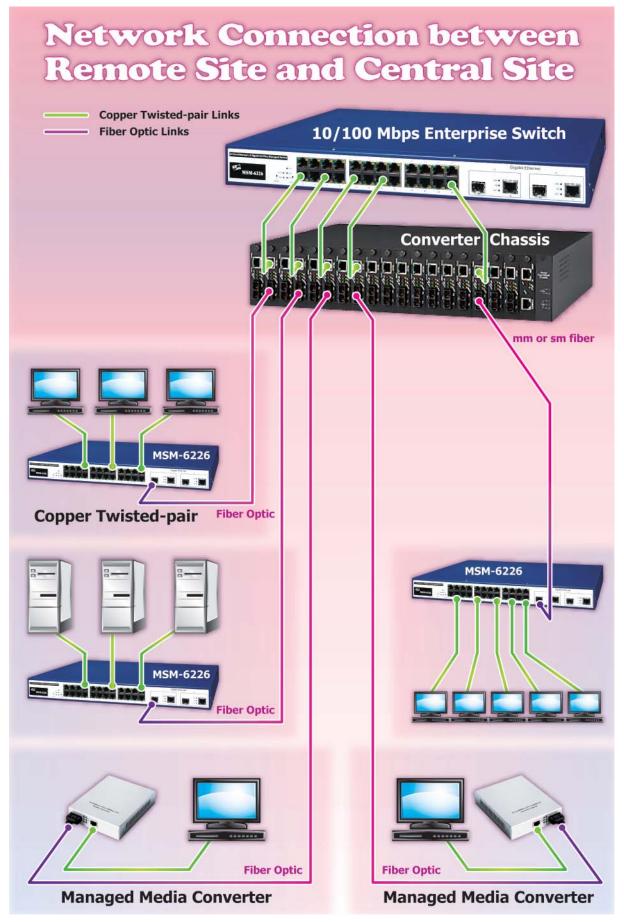


advertise themselves.  MAC Addresses  8192  Processing Type  Non-blocking, store-and-forward and shared-memory L2 managed switch  Memory Bandwidth  8.8 Gbps  Frame Buffer Memory  Embedded 256 KB packet buffers and 128 KB control memory  Backpressure flow control for half duplex  802.3x flow control for full duplex  Protocol  VLAN, QoS, Port Trunk, SMTP, TELNET, SNMP, IGMP, IEEE802.1X, LLDP  Interface  RJ-45 Ports  24-port 10/100 Base-TX auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection Gigabit Ethernet ports with non-blocking wise speed performance.  SFP  2-port 1000 Mbps SFP Fiber Module Dual Media Auto Detection  LED Indicators  CPURUN, POWER, ACT, FDX, SPD  Ethernet Isolation  2 K Voc Isolation  COM1  RS-232 (TXD, RXD and GND); Non-isolated  EMS Requirements:	a demanda ma			
Port Mirroring helps supervisor monitoring network	echnology			
Improves Q-in-Q (Double-tag)  IEEE802.1Q tag-based VLAN for performance & security and 4094 VLAN entries  IEEE802.1D x Access Control improves network security  IEEE802.1D Compatible, IEEE802.1m Rapid Spanning Tree & IEEE802.1s Multiple Spanning Tree Unknown Unicasy/Broadcast/Multicast storm control  Multicast VLAN management for IPTV  IP-MAC-port binding for LAN security  QCL Based on Application traffic for QoS and rate limitation management Supports IGMPV3 snooping and IGMP Proxy  Supports IGMPV3 rooping (DHCP option 82)  ACL Based on Ethernet Type/ARR/IDv4 for packets permit or deny, rate limitation and port copy Supports LIDP (Link Layer Discovery Protocol) provides a standards-based method for enabling swite advertise themselves.  MAC Addresses  8192  Processing Type  Non-blocking, store-and-forward and shared-memory L2 managed switch  Memory Bandwidth  8.8 Gbps  Frame Buffer Memory  Embedded 256 KB packet buffers and 128 KB control memory  Backpressure flow control for full duplex  Protocol  VLAN, QoS, Port Trunk, SMTP, TELNET, SMMP, IGMP, IEEE802.1X, LLDP  Interface  RJ-45 Ports  24-port 10/100 Base-TX auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection Gigabit Ethernet ports with non-blocking wise speed performance.  SFP  2-port 1000 Mbps SFP Fiber Module Dual Media Auto Detection  CM1  RS-232 (TND, RND and GND); Non-isolated  EMS Requirements:  1cc-61000-4-2, IEC-61000-4-3, IEC-61000-4-5, IEC-61000-4-6, IEC-61000-4-8, IEC-61000-4-7, IEC-61000-4-7, IEC-61000-4-7, IEC-61000-4-5, IEC-61000-4-6, IEC-61000-4-8, IEC-61000-4-7, IEC-6				
IEEE802.10 tag-based VLAN for performance & security and 4094 VLAN entries				
IEEEB02.1X Access Control improves network security   IEEEB02.1s Multiple Spanning Tree & IEEEB02.1s Multiple Spanning Tree & Unknown Unicast/Broadcast/Multicast storm control   Multicast VLAN management for IPTV   IP-MAC-port binding for LAN security   QCL Based on Application traffic for QcS and rate limitation management   Supports IGMPv3 snooping and IGMP Proxy   Supports IGMPv3 snooping and IGMP Proxy   Supports DHCP snooping (DHCP option 82)   ACL Based on Ethernet Type/ARP/IPV4 for packets permit or deny, rate limitation and port copy   Supports "power saving" for Green Ethernet requirement   Supports LLDP (Link Layer Discovery Protocol) provides a standards-based method for enabling swit advertise themselves.   B192   Processing Type   Non-blocking, store-and-forward and shared-memory L2 managed switch   Memory Bandwidth   8.8 Gbps   Backpressure flow control for half duplex   Backpressure flow control for full duplex   Ba				
IEEE802.1D Compatible, IEEE802.1w Rapid Spanning Tree & IEEE802.1s Multiple Spanning Tree   Unknown Unicast/Broadcast/Multicast storm control		IEEE802.1Q tag-based VLAN for performance & security and 4094 VLAN entries		
Standards    Unknown Unicast/Broadcast/Multicast storm control		IEEE802.1X Access Control improves network security		
Multicast VLAN management for IPTV   IP-MAC-port binding for LAN security   QCL Based on Application traffic for QoS and rate limitation management   Supports IGMPV3 snooping and IGMP Proxy   Supports IGMPV3 snooping (DHCP option 82)   ACL Based on Ethernet Type/IRP/IPV4 for packets permit or deny, rate limitation and port copy   Supports DLDP (Link Layer Discovery Protocol) provides a standards-based method for enabling swit advertise themselves.   3192   Processing Type   Non-blocking, store-and-forward and shared-memory L2 managed switch   Memory Bandwidth   8.8 Gbps   Backpressure flow control for half duplex   Backpressure flow control for half duplex   Backpressure flow control for full duplex   Backpressure		IEEE802.1D Compatible, IEEE802.1w Rapid Spanning Tree & IEEE802.1s Multiple Spanning Tree		
IP-MAC-port binding for LAN security		Unknown Unicast/Broadcast/Multicast storm control		
QCL Based on Application traffic for QoS and rate limitation management Supports IGMPv3 snooping and IGMP Proxy Supports DHCP snooping (DHCP option 82) ACL Based on Ethernet Type/ARP/IPv4 for packets permit or deny, rate limitation and port copy Supports LIDP (Link Layer Discovery Protocol) provides a standards-based method for enabling swit advertise themselves.  MAC Addresses 8192 Processing Type Non-blocking, store-and-forward and shared-memory L2 managed switch Memory Bandwidth 8.8 Gbps Frame Buffer Memory Embedded 256 KB packet buffers and 128 KB control memory Backpressure flow control for half duplex 802.3x flow control for full duplex 802.3x flow control for full duplex 802.3x flow control for full duplex RJ-45 Ports 24-port 10/100 Base-TX auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection Gigabit Ethernet ports with non-blocking wise speed performance.  SFP 2-port 1000 Mbps SFP Fiber Module Dual Media Auto Detection CPURUN, POWER, ACT, FDX, SPD Ethernet Isolation CPURUN, POWER, ACT, FDX, SPD Ethernet Isolation CPURUN, POWER, ACT, FDX, SPD Ethernet Isolation Frame Ground for EMS Protection Power Input Voltage Range +100 Vac ~ +240 Vac Power Consumption 15 W Protection Pover-Consumption Yes Mechanical	Standards	Multicast VLAN management for IPTV		
Supports IGMPv3 snooping and IGMP Proxy Supports DHCP snooping (DHCP option 82) ACL Based on Ethernet Type/ARP/IPv4 for packets permit or deny, rate limitation and port copy Supports "power saving" for Green Ethernet requirement Supports LLDP (Link Layer Discovery Protocol) provides a standards-based method for enabling swite advertise themselves.  8192  Processing Type Non-blocking, store-and-forward and shared-memory L2 managed switch 8.8 Gbps Frame Buffer Memory Embedded 256 KB packet buffers and 128 KB control memory Backpressure flow control for half duplex 802.3x flow control for full duplex Protocol VLAN, QoS, Port Trunk, SMTP, TELNET, SNMP, IGMP, IEEE802.1X, LLDP Interface RJ-45 Ports 24-port 10/100 Base-TX auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection Gigabit Ethernet ports with non-blocking wise speed performance.  SFP 2-port 1000 Mbps SFP Fiber Module Dual Media Auto Detection CDM1 RS-232 (TxD, RxD and GND); Non-isolated EMS Requirements: IEC-61000-4-2, IEC-61000-4-3, IEC-61000-4-5, IEC-61000-4-6, IEC-61000-4-8, IEC-61000-4-7, IEC-61000-4-8, IEC-61000-4-8, IEC-61000-4-8, IEC-61000-4-7, IEC-61000-4-6, IEC-61000-4-8, IEC-61000-4-7, IEC-61000-4-7, IEC-61000-4-8, IEC-61000-4-8, IEC-61000-4-8, IEC-61000-4-7, IEC-61000-4-8, IEC-610		IP-MAC-port binding for LAN security		
Supports DHCP snooping (DHCP option 82)  ACL Based on Ethernet Type/ARP/IPv4 for packets permit or deny, rate limitation and port copy  Supports "power saving" for Green Ethernet requirement  Supports LLDP (Link Layer Discovery Protocol) provides a standards-based method for enabling swlt advertise themselves.  8192  Processing Type  Non-blocking, store-and-forward and shared-memory L2 managed switch  Memory Bandwidth  8.8 Gbps  Frame Buffer Memory  Embedded 256 KB packet buffers and 128 KB control memory  Backpressure flow control for half duplex  802.3x flow control for full duplex  Protocol  VLAN, QoS, Port Trunk, SMTP, TELNET, SNMP, IGMP, IEEE802.1X, LLDP  Interface  RJ-45 Ports  24-port 10/100 Base-TX auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection Gigabit Ethernet ports with non-blocking wise speed performance.  SFP  2-port 1000 Mbps SFP Fiber Module Dual Media Auto Detection  COM1  R5-232 (TXD, RXD and GND); Non-isolated  EMS Requirements: IEC-61000-4-2, IEC-61000-4-3, IEC-61000-4-5, IEC-61000-4-6, IEC-61000-4-8, IEC-61000-4-7, IEC-61000-4-5, IEC-61000-4-6, IEC-61000-4-8, IEC-61000-4-7, IEC-61000-4-6, IEC-61000-4-8, IEC-61000-4-7, IEC-61000-4-		QCL Based on Application traffic for QoS and rate limitation managmenet		
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Supports "power saving" for Green Ethernet requirement Supports LLDP (Link Layer Discovery Protocol) provides a standards-based method for enabling swite advertise themselves.  MAC Addresses 8192 Processing Type Non-blocking, store-and-forward and shared-memory L2 managed switch Memory Bandwidth 8.8 Gbps Frame Buffer Memory Embedded 256 KB packet buffers and 128 KB control memory Backpressure flow control for half duplex 80.2.3x flow control for full duplex 80.2.3x flow control for full duplex 80.2.3x flow control for full duplex Protocol VLAN, QoS, Port Trunk, SMTP, TELNET, SNMP, IGMP, IEEE802.1X, LLDP Interface RJ-45 Ports 24-port 10/100 Base-TX auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection Gigabit Ethernet ports with non-blocking wise speed performance.  SFP 2-port 1000 Mbps SFP Fiber Module Dual Media Auto Detection CPURUN, POWER, ACT, FDX, SPD Ethernet Isolation 2 K Voc Isolation COM1 RS-232 (TXD, RxD and GND); Non-isolated EMS Requirements: IEC-61000-4-2, IEC-61000-4-3, IEC-61000-4-5, IEC-61000-4-6, IEC-61000-4-8, IEC-61000-4-72, IEC-61000		Supports DHCP snooping (DHCP option 82)		
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Processing Type  Non-blocking, store-and-forward and shared-memory L2 managed switch  8.8 Gbps  Frame Buffer Memory  Embedded 256 KB packet buffers and 128 KB control memory  Backpressure flow control for half duplex  802.3x flow control for full duplex  Protocol  VLAN, QoS, Port Trunk, SMTP, TELNET, SNMP, IGMP, IEEE802.1X, LLDP  Interface  RJ-45 Ports  24-port 10/100 Base-TX auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection Gigabit Ethernet ports with non-blocking wise speed performance.  SFP  2-port 1000 Mbps SFP Fiber Module Dual Media Auto Detection  LED Indicators  CPURUN, POWER, ACT, FDX, SPD  Ethernet Isolation  2 K Voc Isolation  COM1  RS-232 (TXD, RxD and GND); Non-isolated  EMS Requirements: IEC-61000-4-2, IEC-61000-4-3, IEC-61000-4-4, IEC-61000-4-5, IEC-61000-4-8, IEC-61000-4-8, IEC-61000-4-9, IEC-61000		Supports LLDP (Link Layer Discovery Protocol) provides a standards-based method for enabling switches to advertise themselves.		
Memory Bandwidth   8.8 Gbps	IAC Addresses	8192		
Frame Buffer Memory  Embedded 256 KB packet buffers and 128 KB control memory  Backpressure flow control for half duplex  802.3x flow control for full duplex  Protocol  VLAN, QoS, Port Trunk, SMTP, TELNET, SNMP, IGMP, IEEE802.1X, LLDP  Interface  RJ-45 Ports  24-port 10/100 Base-TX auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection Gigabit Ethernet ports with non-blocking wise speed performance.  SFP  2-port 1000 Mbps SFP Fiber Module Dual Media Auto Detection  LED Indicators  CPURUN, POWER, ACT, FDX, SPD  Ethernet Isolation  2 K Voc Isolation  COM1  RS-232 (TxD, RxD and GND); Non-isolated  EMS Requirements: IEC-61000-4-2, IEC-61000-4-3, IEC-61000-4-5, IEC-61000-4-6, IEC-61000-4-8, IEC-6100  Power  Input Voltage Range  +100 Vac ~ +240 Vac  Power Consumption  15 W  Protection  Over-Voltage Protection (Spec.: 6.5 V+/-0.7 V); Over-Current Protection (Spec.: 6 A ~ 10 A); Short Circuit Protection  Frame Ground for EMS Protection  Yes  Mechanical	rocessing Type	Non-blocking, store-and-forward and shared-memory L2 managed switch		
Backpressure flow control for half duplex	lemory Bandwidth	8.8 Gbps		
Roy Control   802.3x flow control for full duplex	rame Buffer Memory	Embedded 256 KB packet buffers and 128 KB control memory		
802.3x flow control for full duplex		Backpressure flow control for half duplex		
Interface  RJ-45 Ports  24-port 10/100 Base-TX auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection Gigabit Ethernet ports with non-blocking wise speed performance.  SFP  2-port 1000 Mbps SFP Fiber Module Dual Media Auto Detection  CPURUN, POWER, ACT, FDX, SPD  Ethernet Isolation  2 K Voc Isolation  COM1  RS-232 (TXD, RXD and GND); Non-isolated  EMS Requirements:	Flow Control	802.3x flow control for full duplex		
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Gigabit Ethernet ports with non-blocking wise speed performance.  SFP  2-port 1000 Mbps SFP Fiber Module Dual Media Auto Detection  CPURUN, POWER, ACT, FDX, SPD  Ethernet Isolation  2 K Voc Isolation  RS-232 (TxD, RxD and GND); Non-isolated  EMS Requirements: IEC-61000-4-2, IEC-61000-4-3, IEC-61000-4-5, IEC-61000-4-6, IEC-61000-4-8, IEC-61000-4-7, IEC-61000-4-7, IEC-61000-4-7, IEC-61000-4-8, IEC-61000-4-9, I	nterface			
LED Indicators  CPURUN, POWER, ACT, FDX, SPD  2 K Vbc Isolation  RS-232 (TxD, RxD and GND); Non-isolated  EMS Requirements: IEC-61000-4-2, IEC-61000-4-3, IEC-61000-4-5, IEC-61000-4-6, IEC-61000-4-8, IEC-6100  Power  Input Voltage Range  +100 Vac ~ +240 Vac  Power Consumption  15 W  Over-Voltage Protection (Spec.: 6.5 V+/-0.7 V); Over-Current Protection (Spec.: 6 A ~ 10 A); Short Circuit Protection  Frame Ground for EMS Protection  Yes  Mechanical	J-45 Ports	24-port 10/100 Base-TX auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection and 2 Gigabit Ethernet ports with non-blocking wise speed performance.		
Ethernet Isolation  2 K Voc Isolation  RS-232 (TxD, RxD and GND); Non-isolated  EMS Requirements:	FP	2-port 1000 Mbps SFP Fiber Module Dual Media Auto Detection		
COM1  RS-232 (TxD, RxD and GND); Non-isolated  EMS Requirements: IEC-61000-4-2, IEC-61000-4-3, IEC-61000-4-5, IEC-61000-4-6, IEC-61000-4-8, IEC-6100  Power  Input Voltage Range	ED Indicators	CPURUN, POWER, ACT, FDX, SPD		
Frame Ground for EMS Protection  EMS Requirements: IEC-61000-4-2, IEC-61000-4-3, IEC-61000-4-5, IEC-61000-4-6, IEC-61000-4-8, IEC-6100  Power  Input Voltage Range	thernet Isolation	2 K Vpc Isolation		
IEC-61000-4-2, IEC-61000-4-3, IEC-61000-4-5, IEC-61000-4-6, IEC-61000-4-8, IEC-61000   Power	OM1	RS-232 (TxD, RxD and GND); Non-isolated		
Input Voltage Range +100 V <sub>AC</sub> ~ +240 V <sub>AC</sub> Power Consumption 15 W  Over-Voltage Protection (Spec.: 6.5 V+/-0.7 V); Over-Current Protection (Spec.: 6 A ~ 10 A); Short Circuit Protection  Frame Ground for EMS Protection Yes  Mechanical	rame Ground for EMS Protection	EMS Requirements: IEC-61000-4-2, IEC-61000-4-3, IEC-61000-4-4, IEC-61000-4-5, IEC-61000-4-6, IEC-61000-4-8, IEC-61000-4-11		
Power Consumption  15 W  Over-Voltage Protection (Spec.: 6.5 V+/-0.7 V); Over-Current Protection (Spec.: 6 A ~ 10 A); Short Circuit Protection  Frame Ground for EMS Protection  Yes  Mechanical	ower			
Protection  Over-Voltage Protection (Spec.: 6.5 V+/-0.7 V); Over-Current Protection (Spec.: 6 A ~ 10 A); Short Circuit Protection  Frame Ground for EMS Protection  Yes  Mechanical	nput Voltage Range	+100 Vac ~ +240 Vac		
Protection Over-Current Protection (Spec.: 6 A ~ 10 A); Short Circuit Protection Frame Ground for EMS Protection Yes  Mechanical	ower Consumption	15 W		
Mechanical	rotection			
	rame Ground for EMS Protection	Yes		
<b>Casing</b> Metal	lechanical			
	asing	Metal		
Environmental Rating IP20	nvironmental Rating	IP20		
<b>Dimensions (W x L x H)</b> 482 mm x 44 mm x 219 mm	imensions (W x L x H)	482 mm x 44 mm x 219 mm		
Installation Installing Chassis to a 19-Inch Wiring Closet Rail; No Wall mounting	nstallation	Installing Chassis to a 19-Inch Wiring Closet Rail; No Wall mounting		
Environmental	nvironmental			
Operating Temperature -10 °C ∼ +60 °C	perating Temperature	-10 °C ~ +60 °C		
Storage Temperature -10 °C ∼ +70 °C	torage Temperature	-10 °C ~ +70 °C		
Ambient Relative Humidity 5% ~ 90% RH, non-condensing	mbient Relative Humidity	5% ~ 90% RH, non-condensing		

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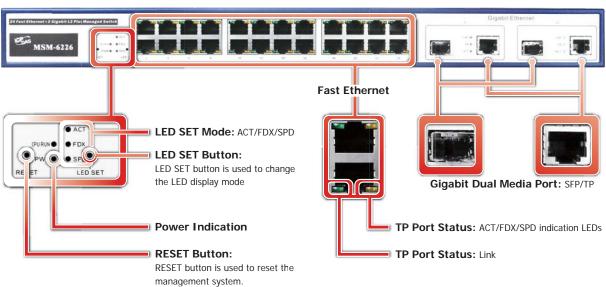
#### **Applications**



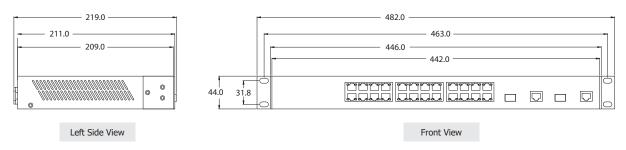
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### Appearance





# Dimensions (Units: mm)



# Ordering Information

MSM-6226 CR	24-port Ethernet + 2 TP/SFP Gigabit Dual Media Layer2 Managed Switch (RoHS) Includes Console Cable and Power Cord
	Includes Console Cable and Power Cord

#### **Accessories**

SFP-1G85M-SX	1000Base-SX, Multi-mode 850 nm, 0.5 km SFP module	
SFP-1G13M-SX2	1000Base-SX2, Multi-mode 1310 nm, 2 km SFP module	Pay
SFP-1G13S-LX	1000Base-LX, Single-mode 1310 nm, 10 km SFP module	
SFP-1G13S-LX20	1000Base-LX20, Single-mode 1310 nm, 20 km SFP module	<b>S</b>

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