

Jaguar

Managed Workgroup Switch 24 10/100/1000TX + 4 Gigabit SFP

JMG-24F4



Overview

The Jaguar Managed Fast Ethernet Workgroup switch is a high performance, managed, stackable switch that offers a reliable connection to the network backbone and can interconnect a number of workgroup users in a typical network environment. The JMG-24F4 provides for 24 ports of 10/100/1000TX, and 4 ports for SFP modules.

The JMG-24F4 is equipped with powerful SNMP features to leverage your existing investment and supports IEEE specifications. It has mission critical features such as RSTP (802.1w), STP (802.1d), QoS (802.1p), VLAN (802.1q), Port Trunk (802.3ad), User Authentication (802.1x) and network management (SNMP/RMON/Telnet/Web/TFTP) provides stability and interoperability.

The JMG-24F4 incorporates leading edge switching technology and high port density with the capability of 4 gigabit SFP ports that can be either multimode or singlemode fiber. The Jaguar series has true investment protection and future proof modularized Layer 2 switching suitable for various network applications.

Key Features

Hardware Features

- Complies with IEEE802.3u 10BASE-T, 802.3u 100BASE-TX/FX, 802.3ab 1000BASE-T, 802.3z Gigabit fiber
- RJ-45 Port support auto MDI/MDI-X function
- 24 ports 10/100/1000TX, and 4 SFP ports
- Stack management via one IP address, easy management by Web GUI
- Supports a wide variety of SFP modules – any manufacturer
- Store and forward switch architecture
- Supports 48VDC power design

Software Features

- Web/ SNMP / Telnet / CLI management
- IGMP support for Multi Media application
- Port mirror / Port security
- Port Based VLAN /802 .1Q VLAN
- DHCP Client

Regulatory Compliances

- IP-21 rated housing protection
- EMI complies with FCC Class A, CE EN6100-4-2, CE EN6100-4-3, CE EN6100-4-4, CE EN6100-4-5 and CE EN6100-4-6, EN61000-4-8 and EN61000-4-11
- Stability testing with IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock) and IEC60068-2-6 (Vibration)

Mechanical Dimension (in mm)



Dimensions : 440 mm (W) x 280 mm(D) x 44 mm (H)

Specifications

Technology

Standard	IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX/100BASE-FX IEEE802.3z Gigabit SX/LX IEEE802.3ab Gigabit 1000T IEEE802.3x Flow Control and Back pressure IEEE802.3ad Port trunk with LACP IEEE802.1d Spanning tree protocol IEEE802.1w Rapid Spanning tree protocol IEEE802.1p Class of service IEEE802.1q VLAN Tagging IEEE 802.1x User authentication
-----------------	---

Connector	24-10/100/1000TX : RJ-45 4-port Gigabit SFP 1-DB9 for Console management
------------------	--

Network Media	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m)
----------------------	--

Protocol Technology	CSMA/CD
----------------------------	---------

Switching Architecture	Store and Forward
-------------------------------	-------------------

Packet Filter	Broadcast packet filtering
----------------------	----------------------------

Performance

Network Data Transfer Rate	14,880 pps for Ethernet port and 148,800 pps for Fast Ethernet port
-----------------------------------	---

MAC Address	8K MAC address table with Auto learning function
--------------------	--

Memory Buffer	3 Mbytes for packet buffer
----------------------	----------------------------

Flash ROM	512Kbytes x 1
------------------	---------------

System Memory	8Mbytes x 1
----------------------	-------------

Back-plane	8.8 Gbps
-------------------	----------

Transfer packet size	64 bytes to 1522 bytes with VLAN tag
-----------------------------	--------------------------------------

Interface

Diagnostic LED	System Power 8 10/100TX module: Link/Activity (Green), Full duplex (Green) 8 100Base-FX module: Link (Green), Activity (Green Blinking) Gigabit Fiber: Link/ Activity Gigabit Copper: Link/Activity, Full duplex, 1000Mbps, 100Mbps
-----------------------	---

Specifications

Power

Power input	AC 100~240V, 50 /60Hz, 0.8A (maximum)
--------------------	---------------------------------------

Power consumption	60 watts (maximum)
--------------------------	--------------------

Ventilation	2 x DC cooling fan with auto detect function for redundancy
--------------------	---

Mechanical

Weight	5.1 kg
---------------	--------

Case Dimensions (WxHxD)	IP-21 standard, 440 mm (W) x 280 mm(D) x 44 mm (H)
--------------------------------	--

Installation	Provide wall mount bracket, screws and rubber pad for cabinet installation
---------------------	--

Environmental	
Operating Temperature	0 deg C to 50 deg C
Storage Temperature	-40 deg C to 70 deg C
Operating Humidity	5%~90%RH (Non-condensing)

Regulatory Approvals	
Emission	FCC Class A, CE EN6100-4-2, CE EN6100-4-3, CE EN-6100-4-4, CE EN6100-4-5, CE EN6100-4-6, EN61000-4-8, EN61000-4-11
Safety	UL, cUL, CE/EN60950
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Free Fall	IEC60068-2-32

Management Features	
Management	Telnet management, Web management, Out band local console (RS-232)
RFC standard	RFC 1157 SNMP, RFC 1213 MIB II, RFC 1643 Ethernet like, RFC 1493 Bridge MIB, RFC 1757 RMON 1, RFC 1215 Trap, RFC 2674 VLAN MIB, private MIB
SNMP Trap	Cold start, link down, link up, authorization fail, fan fail trap. Trap station up to 3
Software Upgrade	TFTP and Console firmware upgradeable
Port Trunk	Supports IEEE802.3ad with LACP function. Up to 7 trunk groups, trunk member up to 4 ports and includes 2 uplink ports
Spanning Tree	IEEE802.1d spanning Tree
VLAN	Port based VLAN IEEE802.1Q Tag VLAN IEEE802.1v Protocol VLAN (IP, IPX,...) Static VLAN groups up to 256, Dynamic VLAN group up to 2048, VLAN ID from 0 to 4094
QoS policy	Supports 8 priority levels ID for two priority queue
Class of Service	2 queues per port, High/ low queue. Service rule: first come first service; all High before Low, WRR for High or low weight
Port-based Priority	Supports 3 settings: "Disable, Low and High priority". When set to "Disable", the income packet will follow QoS policy; Otherwise, the packet will follow port priority setting to "High/Low" queue
IGMP	Supports IGMP V1 and V2 snooping. IGMP Snooping for Multi-Media application, IGMP group supports 256 groups
Port Security	MAC address filter for ingress and egress packet Static MAC address lock for source address
Port Mirror	Global system supports 3 mirroring types: "RX, TX and Both packet". The maximum of port mirror entries is up to 25
Bandwidth Control	Per port Bandwidth control. Per level - 100K
Stacking	The switch provides the Stack Grouping feature and through the master switch interface can manage and stack up to 8 units
802.1x Authentication	Support IEEE802.1x User-Authentication and can report to RADIUS server <ul style="list-style-type: none"> ➢ Reject ➢ Accept ➢ Authorize ➢ Disable
DHCP	DHCP client
Packet filter	Broadcast storm control

Ordering Information

JMG-24F4 : Jaguar Managed Workgroup Switch