

ADM-W2802

16+8+4 Port Industrial Managed Gigabit Ethernet Switch

Features

- 16x Gigabit Ethernet ports
- 8x Gigabit Combo Ethernet
- 4x 1000F(x) SFP Slot
- Built for Harsh Environments and Wide Temperature Range Application
- RSTP, MSTP, ERPS, LACP for Network Redundancy
- QoS CoS/DSCP to Increase Determinism
- Supports IGMP Snooping v1/v2/v3, up to 512 Groups
- DHCP Relay Option 82 for Policies IP address Assignment
- SNMP v1/v2c/v3 for Network Management
- Supports Storm Protection
- USB Storage for Configuration-Free Replacement
- Supports Industrial Automation Protocols Ethernet/IP and Modbus TCP

Appearance



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Revision Table

Date	Revision	Content	By
2025/11/26	0.1	First Draft	Tommy

ACT POWER TAIWAN
Preliminary

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Specification

Technology	
Standards	IEEE 802.3 10BaseT IEEE 802.3u 100BaseTX IEEE 802.3ab 1000BaseT IEEE 802.3z 1000BaseX IEEE 802.3x Flow Control IEEE 802.3ad/802.1AX LACP IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid STP IEEE 802.1s Multiple STP ITU-T G.8032 / Y.1344 ERPS IEEE 802.1Q VLAN Tagging IEEE 802.1ad Stacked VLANs IEEE 802.1p Class of Service IEEE 802.1X Network Authentication IEEE 802.1AB LLDP IEEE 1588 PTP
Processing Type	Store and Forward
Switch Properties	
Switch Fabric	56Gbps
Priority Queues	8 Queues
Jumbo Frames	9216 byte
MAC Table Size	16K
Packet Buffer	12M bits
VLAN Table Size	4094
IGMP Group	512
ACL Group	512

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Software Feature	
Network Redundancy	RSTP, MSTP, G.8032 ERPSv2, Port Trunking with LACP
Security	802.1X, RADIUS, TACACS+, SSL, SSH
Management	IPv4, IPv6, Web, Telnet, Serial Console, CLI, SNMP v1/v2c/v3, uPnP
Diagnostics	RMON, SNMP Inform/Trap, Syslog, SMTP, Port Mirroring, LLDP, DDM
Configuration	DHCP Server/Client, Relay Option 82, TFTP, USB
Filter	802.1Q VLAN, Q-in-Q, IGMP Snooping v1/v2/v3, IGMP Querier, Independent Vlan Learning
Time Sync.	NTP, IEEE1588v2 OC (Software Timestamp), TC (Hardware Timestamp)
QoS	CoS, DSCP, WRR/SPQ Queuing, Storm Protection
Industrial Profiles	Ethernet/IP, Modbus TCP
Interface	
RJ45 Port	16x 10/100/1000T(x), Auto Negotiation Speed Duplex Mode, Auto MDI/MDI-X
Combo Port	8x 10/100/1000T(x) with Dual Speed SFP Combo Port, Auto Media Detect
Fiber Port	4x 1000F(x) SFP Slot
LED Indicators	Per Unit: PWR1, PWR2(AC2/DC2), Fault, Ring Master, Ring State Ports: Link/Active with Green LED on the Left, Speed on the Right with Highest Speed (Amber), Low Speed (OFF)
Alarm Contact	1x Relay Output with Current Carrying Capacity of 1A @ 24 VDC
Digital Inputs	1x Isolated Input from the Electronics. +13 to +30V for State "1" -30 to +3V for State "0" Max. Input Current: 8mA

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Button	Multiple Functions Reset Button
Serial Console	1x RS232 in RJ45 Connector with Console Cable, 115.2Kbps, 8N1
Storage	1x USB 2.0 Storage for Firmware Update, Configuration Backup, Restore, Boot Up and Syslog
Power Requirements	
Operation Voltage	90 - 264VAC, 12 - 48VDC, Redundant Dual Inputs
Connection	AC Socket, DC 4-Pin Terminal Block
Power Consumption	0.3A@110VAC, 0.82A@24VDC
Protection	Overload Current Protected, Reverse Polarity Protected
Mechanical Construction	
Enclosure	Aluminum/ Steel
Protection Class	IP30
Dimensions	440 x 44 x 331 mm (W x H x D)
Weight	4.80 kg
Mounting	Rack Mounting

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Environment Compliance

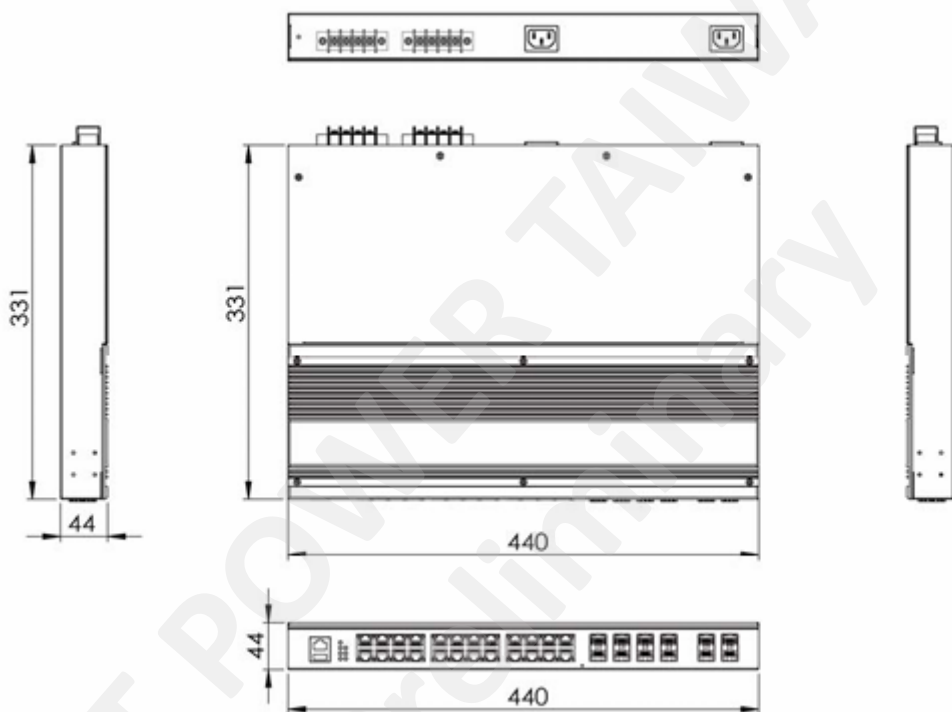
Operating Temp.	-40 to +60°C (32°F to 122°F)
Storage Temp.	-40 to +85°C (-40°F to 185°F)
Humidity	5 to 95% RH , Non-Condensing
Certification Compliance	
EMI	FCC Part 15 Subpart B Class A CE EN 55032 Class A
EMS	IIEC61000-4-2 (ESD) IEC61000-4-3 (RS) IEC61000-4-4 (EFT) IEC61000-4-5 (Surge) IEC61000-4-6 (CS) IEC61000-4-8 (Magnetic Field)
Free Fall	IEC60068-2-32
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Green	RoHS Compliant
Certifications	UL 60950-1/62368 (Pending)
MTBF	> 100,000 Hours

Environmental performance may vary according to the integration method or final integration scenario.

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Reference Drawing (Unit = mm)



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Deliverables

1	16+8+4 Port Industrial Managed Gigabit Ethernet Switch
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Ordering Information

Model Name	Description	Unit
ADM-W2802	16+8+4 Port Industrial Managed Gigabit Ethernet Switch	1

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