

AVR-9512SW

Rugged LAN Switch



Features

Layer 3 Fully Managed Gigabit Ethernet Switch
 12 Ports of 1GBase-T Ethernet
 Operation Temperature: -40°C ~ 65°C
 Conduction cooled, sealed, IP67
 Micro D38999 connectors
 MIL-STD-810, MIL-STD-461, MIL-STD-1275/704

The Rugged LAN Switch is an 12 port L3 managed switch which supports static routing and NAT. The switch is fully qualified to MIL-STD-810G for shock and vibration, MIL-STD-461F for Electromagnetic compatibility, MIL-STD-1275/704 for power and is designed to work in harsh environments with wide temperature ranges and salty environments.

Specifications

Communications	IEEE standards	IEEE 802.3, 802.1, 802.3af, 802.1s, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1X, 802.1ad, 802.3az	
	LAN	10/100/1000Base-T auto negotiation	
	Layer 3 features	Static routing, 512 host entries, S-NAT. D-NAT	
Management Functions	VLAN	802.1Q, GVRP, 802.1ad VLAN stacking	
	Redundancy	IEEE 802.1D(STP), IEEE802.1s(MSTP), IEEE802.1w(RSTP) X-Ring Pro, X-Chain, Dual homing, Coupling	
	Security and authentication	Static MAC, MAC violation notice, port-based loop detection 802.1x (Port-based, MAC-based), RADIUS	
	Traffic Control	Broadcast, Multicast, Unknown Unicast, Scheduling (STRICT/ WRR), Port Priority, 802.1p,DSCP, IP TOS/ precedence, Ingress/ Egress Rate limit	
	Port Mirroring	Per port, Multi-source port (4 Mirroring sessions Max.)	
	IP Multicast	IGMP snooping v1/v2/v3, MLD snooping(256 Multicast Entries Max.)	
	Configuration	DHCP Client, Server, Option66/67/82, Port IP-Binding SNMP, v1/v2c/v3, WEB, Telnet, Console, RMON, Standard MIB, Private MIB, TFTP, HTTP, Dual Image, NTP server/ client, SNTP	
Power Supply	12-36VDC Input, nominal 24VDC, nominal 25W, MIL-STD-1275/704 compliant		
Environment		Operating *	Non-operating
	Temperature	-40 ~ 65° C	-40 ~ 85° C
	IP Rating	IP67	
	Environmental	MIL-STD-810G	
	EMI/EMC	MIL-STD-461F	
Physical Characteristics	Dimensions (W x H x D)	232 mm x 65 mm x 174 mm not including connectors	
	Weight	5 Kg	

Ordering Information

AVR-9512-01	Rugged layer 3 managed LAN Switch with 12 ports 1GBase-T
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MIL-STD-461F Compliance

Fully qualified to the following:

Requirement	CE101	Conducted emissions, power leads, 30Hz to 10 kHz
	CE102	Conducted emissions, power leads, 10 kHz to 10 MHz
	CS101	Conducted susceptibility, power leads, 30 Hz to 150 kHz
	CS106	Conducted susceptibility, transients, power leads
	CS114	Conducted susceptibility, bulk cable injection, 10 kHz to 200 MHz
	CS115	Conducted susceptibility, bulk cable injection, impulse excitation
	CS116	Conducted susceptibility, damped sinusoidal transients, cables and power leads, 10 kHz to 100 MHz
	RE101	Radiated emissions, magnetic field, 30 Hz to 100 kHz
	RE102	Radiated emissions, electric field, 10 kHz to 18 GHz
	RS101	Radiated susceptibility, magnetic field, 30 Hz to 100 kHz
	RS103	Radiated susceptibility, electric field, 2 MHz to 18 GHz
	ESD	IEC61000-4-2, 2 nd edition, 2008. +/- 8kV contact, +/- 15kV air discharge

MIL-STD-810G Compliance

Fully qualified to the following:

Requirement	High Temperature Operation	Method 502.5, Procedure I, +49°C
	High Temperature Storage	Method 502.5, Procedure 1, +71°C
	Low Temperature Operation	Method 501.5, Procedure II, -30°C
	Low Temperature Storage	Method 501.5, Procedure 1, -30°C
	Immersion	Method 512.5, Procedure I
	Humidity	Method 507.5- Procedure II
	Salt Fog	Method 509.5, Procedure I
	Vibration (packaged)	Method 514.6 procedure I
	Vibration (operational)	Method 528.6 Procedure I, Type 1
	Shock (Bench Handling)	Method 516.6, Procedure IV
	Shock (transit drop)	Method 516.6, Procedure IV
	Shock (loose cargo)	Method 514.6, Procedure II

Dimensions

