

AVR-SW12M

Rugged Managed LAN Switch



Features

Layer 3 Fully Managed Gigabit Ethernet Switch
 Supports up to 8x 10GBase-T Ports, 6x 1GBase-T Ports
 Operation Temperature: -40°C ~ 55°C
 Conduction cooled, IP67, D38999 connectors
 MIL-STD-810, MIL-STD-461, MIL-STD-1275/704

The Rugged LAN Switch is a L3 managed switch supporting up to maximum of 8x10G & 6x1G ethernet ports. The switch is Designed to meet 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.

Specifications

Layer 2 & Layer 3	IEEE 802.1Q VLAN switch with 32K MACs and 4K VLANs Secure MAC addressing Push/pop/translate up to two VLAN tags on ingress and egress Policing with storm control and MC/BC protection RSTP and MSTP support Independent and shared VLAN learning (IVL, SVL) Hardware-based and software-based learning TCAM-based classification and VCAP-II security Layer 3 unicast and multicast routing		
Security	Vitesse Content Aware Processor (VCAP™) packet filtering engine using ACLs for ingress and egress packet inspection Storm controllers for flooded broadcast, flooded multicast, and flooded unicast traffic Per-port, per-address registration for copying/redirecting/discarding 32 VCAP single-rate policers		
Quality of Service	Four megabytes of integrated shared packet memory Eight QoS classes with a pool of up to 32K queues TCAM-based classification with pattern matching against Layer 2 through Layer 4 information Dual-rate policers selected by VCAP IS2, eight single-rate priority policers per port, and four single-rate port policers for each port Flexible 4K ingress QoS mappings and 8K egress QoS mappings for VLAN tags and DSCP values Up to 4K egress VLAN tag operations Audio/ video bridging (AVB) with support for time-synchronized, low-latency, and video streaming services Priority-based flow control (PFC) (IEEE 802.1Qbb)		
Power Supply	12-36VDC Input, nominal 24VDC, Max 40W, MIL-STD-1275/704 compliant		
Environment		Operating *	Non-operating
	Temperature	-40 ~ 55° C	-40 ~ 85° C
	IP Rating	IP67	
	Environmental	MIL-STD-810G	
Physical Characteristics	EMI/EMC	MIL-STD-461F	
	Dimensions (W x H x D)	194mm x 230mm x 81 mm	
	Weight	~2.5Kg	

MIL-STD-461F Compliance

Design to meet the following:

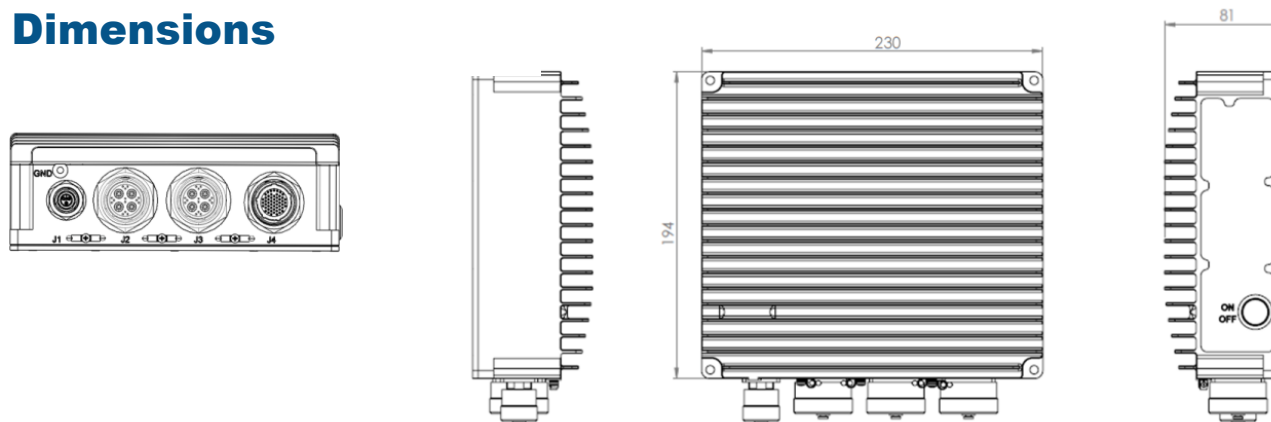
Requirement	CE101	Conducted emissions, power leads, 30Hz to 10 kHz
	CE102	Conducted emissions, power leads, 10 kHz to 10 MHz
	CS101	Conducted susceptibility, power leads, 30 Hz to 150 kHz
	CS106	Conducted susceptibility, transients, power leads
	CS114	Conducted susceptibility, bulk cable injection, 10 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

Design to meet 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, -40°C
	Low Temperature Storage	Method 501.5, Procedure 1, -40°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



Ordering Information

AVR-SW12M-C1	Rugged layer 3 managed LAN Switch with 12 ports 1GBase-T
AVR-SW12M10G-C1	Rugged layer 3 managed LAN Switch with 6 ports 10GBase-T, 4 ports 1GBase-T