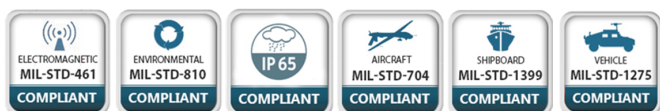




- ✓ 12x Gigabit Ethernet ports
- ✓ 4x 1G/10G Extension (Optional)
- ✓ RSTP, MSTP, ERPS, LACP for Network Redundancy
- ✓ QoS CoS/DSCP to increase determinism.
- ✓ Supports IGMP Snooping v1/v2/v3, up to 512 groups.
- ✓ DHCP Relay Option 82 for policies IP address assignment
- ✓ SNMP v1/v2c/v3 for network management
- ✓ Supports Storm Protection



## Specifications

### Technology

IEEE 802.3 10BaseT  
 IEEE 802.3u 100BaseTX  
 IEEE 802.3ab 1000BaseT  
 IEEE 802.3ae 10GBase over Fiber  
 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

### Standards

**Processing Type** Store and Forward

### Switch Properties

**Switch Fabric** 128Gbps  
**Priority Queues** 8 Queues  
**Jumbo Frame** 9216bytes  
**MAC Table Size** 16K  
**Packet Buffer** 12Mbits  
**VLAN Table Size** 4094  
**IGMP Group** 512

**ACL Group** 512

**VLAN IP Entries** 64

**Routing Entries (IPv4/IPv6)** 512/256 host, 64/64 LPM

### 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), BC (Software Timestamp), TC (Hardware Timestamp)

**QoS** CoS, DSCP, WRR/SPQ Queuing, Storm Protection

**Industrial Profiles** Ethernet/IP, Modbus TCP

**L3 Switching** Static Routing, RIP v1/v2, OSPF v2, VRRP v2

Interface	
<b>Ethernet Port</b>	12x 10/100/1000T(x), auto negotiation speed duplex mode, auto MDI/MDI-X
<b>Fiber Port</b>	4x 1/10 Gigabit Ethernet SFP+ Slot (Optional)
<b>LED Indicators</b>	<b>Per unit:</b> PWR, Fault, Ring Master, Ring State <b>Ports:</b> Link/Active with highest speed(Green), low speed(Amber)
<b>Alarm Contact</b>	1x relay output with current carrying (Optional)
<b>Digital Inputs Optional</b>	1x isolated input from the electronics. +13 to +30V for state "1" -30 to +3V for state "0" Max. input current: 8mA
<b>Button</b>	Reset button
<b>Serial Console</b>	RS232 management
<b>Storage</b>	1x USB 2.0 storage for firmware update, configuration backup, restore, boot up and syslog

Power Requirements	
<b>Operation Voltage</b>	90~264VAC ,50/60Hz
<b>Connection</b>	Amphenol D38999
<b>Power Consumption</b>	25W
<b>Protection</b>	Overload Current Protected, Reverse Polarity Protected

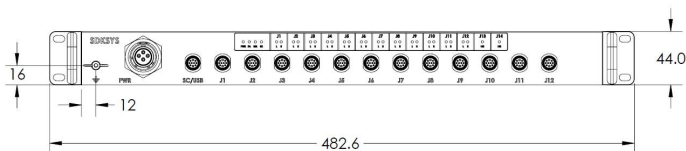
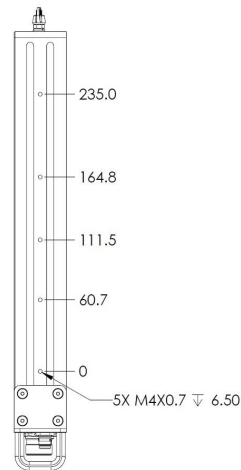
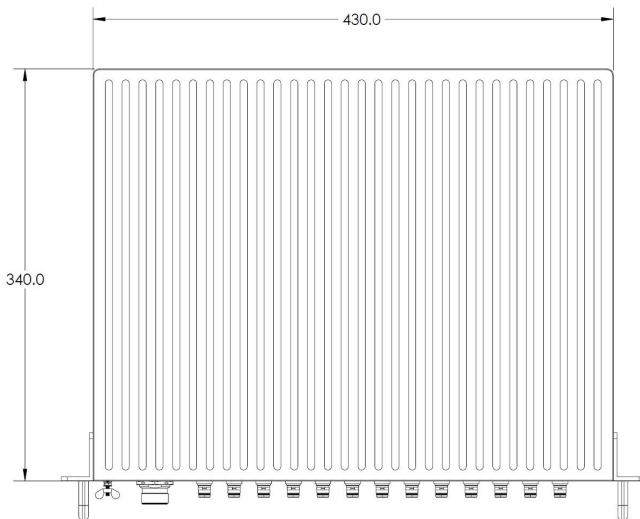
Mechanical Construction	
<b>Mounting</b>	1U Rack Mounting

<b>Enclosure</b>	Machined rugged aluminum, Anodized
<b>Protection Class</b>	IP65
<b>Dimensions</b>	482.6 x 44.5 x 340 mm (WxHxD)
<b>Weight</b>	5.00 kg
<b>Mounting Rails</b>	Jonathan Rails (Optional)

Environmental	
<b>Operating Temperature</b>	-40°C ~ 75°C (-40°F ~ 167°F)
<b>Storage Temperature</b>	-40°C ~ 85°C (-40°F ~ 185°F)
<b>Ambient Relative Humidity</b>	5 to 95%, (Non-Condensing)
<b>EMI/EMC</b>	MIL-STD-461GF
<b>Shock</b>	MIL-STD-810G
<b>Vibration</b>	MIL-STD-810G
<b>Ingress Protection</b>	IP-65
<b>Altitude</b>	15,000 feet
<b>MTBF</b>	>100,000 hours
<b>Warranty</b>	5 Years

<b>Regulatory</b>	FCC Part 15 Subpart B Class A CE EN 55032 Class A VCCI Class A
-------------------	--

## Dimensions (unit = mm)



## Ordering Information

**SD-12PRSM-P3G**            12 Port Rugged Managed L3 Switch

---

**SD-12PRSM-P4G**            12Port Rugged Managed L3 Switch  
w/ 24~48VDC Power Input

---

**SD-12PRSM-P5G**            12 Port Rugged Managed L3 Switch  
w/ 9~36VDC Power Input

---

**SD-12PRSM-P3G2**            12 Port Rugged Managed L3 Switch and 2x 10GB uplink  
w/ 90~264VAC Power Input

---

**SD-12PRSM-P3G4**            12 Port Rugged Managed L3 Switch and 4x 10GB uplink  
w/ 90~264VAC Power Input

---

### Optional Accessories

**CBLK-12RSC**            Mating cables kit

---

**MCK-12RS**            Mating connectors kit

---

**DR-12SW**            Rugged IP67,MIL-STD-810G complaint carry case