


SDC-PoE8 180 W

SNMP / BACnet IP communication

SDC-PoE8 is a PoE/PoE+/HiPoE manageable layer 2 switch, with a built-in micro-UPS function (LiFePO4 battery). With 10 full-Gigabit ports including 4 HiPoE, 4 PoE+ and 2 SFP for fiber links, the switch interconnects and supplies equipments, such as cameras, recorders, alarm panels, etc... It manages data or video flows and monitors the proper functioning of the devices. In the event of a power failure, it ensures service continuity and maintains operation of the equipments powered by PoE.

| MECHANICAL CHARACTERISTICS | | | | | |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------|-------------------|--------------|
| BOXES | Size W x H x D (mm) | Weight (kg) | Materials | Protection rating | Installation |
|  DIN4 | 215 x 138 x 131 (without connectors) | | Aluminium | IP2 | DIN Rail |
| CONNECTIONS | | | | | |
| Mains | Screw terminal with plug-in connector with polarizing slot | | | | |
| PoE ports | 8 RJ45 ports | Ethernet cable Category 5e or more (PoE/PoE+)/ Category 6a or more (HiPoE) shielded, straight or twisted cables | | | |
| SFP ports | 2 SFP ports | SFP module 1 0 Mbps transceiver | | | |
| Digital Input/ Dry Contact | Screw terminal with plug-in connector with polarizing slot | | | | |
| POE | | | | | |
| PoE/PoE+/HiPoE Ports | 4 ports, support PoE Power Pin Type: End-span (Mode A) IEEE 802.3af/at/bt - 15 W / 30 W / 60 W / 90 W per port | | | | |
| PoE/PoE+ Ports | 4 ports, support PoE Power Pin Type: End-span (Mode A) IEEE 802.3af/at - 15 W / 30 W per port | | | | |
| Power | Per port PoE function configuration | | | | |
| PoE budget | 0 W | | | | |
| COMMUNICATION | | | | | |
| Communication speed | PoE ports | 0 Mbps | | | |
| | SFP ports | 0 Mbps | | | |
| Application layer protocols | HTTPS, BACnet IP, SNMP (v1, v2c, v3), DHCP | | | | |
| Network layer protocols | IPv4, ICMP | | | | |
| SWITCH PROPERTIES | | | | | |
| Priority Queues | 8 | | | | |
| Max. Number of VLANs | | | | | |
| VLAN ID Range | VID 1 to 4 | | | | |
| IGMP Groups | | | | | |
| MAC Table Size | Up to 8K MAC addresses | | | | |
| Jumbo Frame Size | 6 KB | | | | |
| PERFORMANCE | | | | | |
| Capacity of the forwarding rate in Millions of Packets per Second (Mpps) (64-byte packets) | 8 Mpps | | | | |
| Switching Capacity in Gigabits per Second (Gbps) | 0 Gbps | | | | |

| SWITCHING CHARACTERISTICS | |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LAYER 2 SWITCHING | |
| Spanning Tree Protocol (STP) | Standard Spanning Tree (STP) IEEE 802.1D |
| | Rapid Spanning Tree (RSTP) IEEE 802.1w |
| Aggregation | Link Aggregation Control Protocol (LACP) IEEE 802.3ad; Up to 5 groups, up to 8 ports per group |
| VLAN | Supports up to 4K VLANs simultaneously (out of 4096 VLAN IDs); Port-based VLAN; 1Q tag-based VLAN |
| IGMP v1/v2 Snooping | IGMP limits bandwidth-intensive multicast traffic to only the requesters; it supports 4 multicast groups (source-specific multicasting is also supported) |
| SECURITY | |
| Secure Sockets Layer (SSL), HTTPS | SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch |
| Port Security | Locks MAC Addresses to ports, and limits the number of learned MAC addresses |
| IP Source Guard | Prevents datagram with spoofed addresses from being in the network |
| Storm control | Prevents traffic on a LAN from being disrupted by a broadcast, multicast or unicast storm on a port |
| ACLs | Supports for up to 2048 entries; Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) IP precedence, TCP/UDP source and destination ports, 8 priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag |
| QUALITY OF SERVICE | |
| Hardware Priority Queue | Supports 8 hardware queues |
| Scheduling | Strict priority and weighted round-robin (WRR) |
| | Queue assignment based on DSCP and class of service (8 p/ CoS) |
| Classification | Port based; 8 p VLAN priority based; IPv4 precedence/ type of service (ToS) / DSCP based |
| Rate Limiting | Ingress policer; egress shaping and rate control; per VLAN, per port and flow based |
| MANAGEMENT (WEB/SSL, SNMP, BACnet) | |
| Web GUI interface | Built-in switch configuration utility for browser-based device configuration (HTTPS) Supports configuration, system dashboard, maintenance and monitoring. |
| Firmware upgrade | Web browser upgrade (HTTPS) |
| Port mirroring | Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to a single destination port. A single session is supported. |
| Other management | Single IP management; HTTPS; RADIUS; DHCP Client; SNMP; cable diagnostics |
| GREEN ETHERNET | |
| Link detection | Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ45 port when detecting link down or Idle of client. Active mode is resumed without loss of any packets when the switch detects the link up. |
| Cable length detection | Adjusts the signal strength based on the cable length. Reduces the power consumption for shorter cables. |
| Eco Mode | Shifts automatically to power-saving mode. |
| DISCOVERY | |
| Link Layer Discovery Protocol (LLDP) | Used by network devices for advertising their identities, capabilities and neighbors on a IEEE 802 local area network, principally wired Ethernet. |
| THE CONFIGURATION OF THE SWITCH FUNCTIONS IS DONE VIA THE EMBEDDED WEBSITE. | |

| SIGNALING | |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| 1 LED for the "PoE Load" level on the front panel | |
| 1 LED for the product "Status" on the front panel | |
| 8 LEDs indicate the PoE activity on the corresponding port (green) | |
| 8 LEDs indicate the data transmission activity on the corresponding port (yellow) | |
| ENVIRONMENTAL SPECIFICATIONS | |
| TEMPERATURE | |
| Storage | °C ... +60°C |
| Operating | at 100% load: °C ... +45°C |
| | at 75% load: °C ... +50°C |
| HUMIDITY | |
| Storage | relative humidity 10% ... 90% |
| Operating | relative humidity 20% ... 85% |
| ALTITUDE | |
| Above 2 0 m, the temperature decreases by 5% every 1 0 m. | |
| COOLING | |
| The cooling is carried out transversally. | |
| SERVICE LIFE | |
| 0 years at 25°C product external environment, rated mains voltage, 75% load | |
| ELECTRICAL CHARACTERISTICS | |
| NETWORK INPUT | |
| AC network voltage | 5 V ... 2 5 V |
| Frequency | 5 Hz ... 65 Hz |
| Class | |
| Inrush current | Limited by NTC |
| Neutral system | TT, TN, IT |
| Protection against | primary short-circuit and differential mode shock waves |
| Primary current @ 195 V | 5 A |
| Primary current @ 265 V | 0 A |
| FUNCTIONAL CHARACTERISTICS | |
| Operates in power-saving mode when the backup is charged. | |
| On/Off function per PoE port. | |
| Filters disturbances of the electrical network. | |
| Fan-cooling. | |
| Configurable reboot function (stop and restart automatically) on each PoE-port. | |
| Indicates the % of the remaining autonomy. | |
| PROTECTIONS | |
| Against surge and overvoltage on primary (Lightning or industrial origins) | |
| Against overload by power limitation to Pn+10%. | |
| Against overcurrent and short-circuits on the output by disconnecting the PoE port at I > In + 10%. | |
| SMART BACKUP | |
| SDC-PoE8 is available with the backup pack | 5F |
| Latest generation Lithium-ion LiFePO4 Technology (no risk of thermal runaway) | |
| Lead-free, cadmium-free, 0% recyclable. | |
| Storage: 9 months without recharging. | |
| 0 year service life. | |
| Advanced management settings, cell balancing, overload and overvoltage protection. | |

BACKUP DURATION ACCORDING TO OUTPUT POWER

| Operating power | Backup F |
|-----------------|-----------------------------------------|
| | Autonomy expressed in hours and minutes |
| 10 W | 2h07 |
| 20 W | 1h29 |
| 30 W | 1h09 |
| 40 W | 0h55 |
| 50 W | 0h46 |
| 60 W | 0h40 |
| 70 W | 0h35 |
| 80 W | 0h31 |
| 90 W | 0h28 |
| 100 W | 0h25 |
| 110 W | 0h23 |
| 120 W | 0h21 |
| 130 W | 0h20 |
| 140 W | 0h18 |
| 150 W | 0h17 |
| 160 W | 0h16 |
| 170 W | 0h15 |
| 180 W | 0h14 |

STANDARDS
IEEE STANDARDS

| | |
|--------------|------------------------------------------|
| IEEE 802.1D | Standard Spanning Tree / Multicast |
| IEEE 802.1w | Rapid Spanning Tree (RSTP) |
| IEEE 802.1Q | VLAN |
| IEEE 802.1X | Radius |
| IEEE 802.3ad | Link Aggregation Control Protocol (LACP) |
| IEEE 802.3i | 0BaseT |
| IEEE 802.3u | 0BaseT(X) and 100BaseFX |
| IEEE 802.3ab | 0BaseT(X) |
| IEEE 802.3z | 0BaseX |
| IEEE 802.3x | Flow Control |
| IEEE 802.3af | PoE |
| IEEE 802.3at | PoE+ |
| IEEE 802.3bt | HiPoE (type 3) |
| IEEE 802.3az | Energy Efficient Ethernet |

ELECTRICAL STANDARDS

| | |
|-----------------|-----------------------------------------------------------------|
| Safety | EN 60950-1) + A1) + A1) + A1) + A2) SELV class, EN 60950-2 |
| EMC - Immunity | EN 60950-1, EN 60950-2 |
| EMC - Emissions | EN 60950-1, EN 60950-2) + A1 |
| | EN 60950-1 (class A) |
| | EN 60950-1 (class B) |


SECURITY STANDARDS

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|-------------------------|------|
| Transportation security | UN 3 |
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PRODUCT REFERENCES

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|--------------------------------------------------------------------------------------|
| SDC-POE 5F DIN4 8P2F |
| Available on www.slat.com and in the SLAT catalog. |

*SLAT reserves the right to modify the characteristics of its products without prior notice.