


SDC-PoE24 210 W

SNMP / BACnet IP communication

SDC-PoE24 is a PoE / PoE + manageable layer 2+ switch, with built-in micro-UPS function (Li-ion battery). With 24 full-Gigabit ports including 4 SFPs 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 / PoE +.

MECHANICAL CHARACTERISTICS

BOXES	Size W x H x D (mm)	Weight (kg)	Materials	Protection rating	Installation
 2U Rack	446 x 85 x 380 (without connectors)	7 - 7.7	Painted metal RAL 7011	IP30	Rack / Shelf placement

CONNECTIONS

Mains	IEC connector	
Ethernet port (RJ45)	20 RJ45 ports	Ethernet cable Cat 5 or more / shielded / straight or twisted cables
SFP ports	2 SFP ports -	SFP module 1000 Mbps transceiver
Combo ports	2 Combo ports Ethernet/SFP	

SWITCH PROPERTIES

Priority Queues	8
Max. Number of VLANs	4094
VLAN ID Range	VID 1 to 4094
IGMP Groups	1024
MAC Table Size	Up to 8K MAC addresses
Jumbo Frame Size	9.6 KB

PERFORMANCE

Capacity of the forwarding rate in Millions of Packets per Second (Mpps) (64-byte packets)	38.69 Mpps
Switching Capacity in Gigabits per Second (Gbps)	52 Gbps

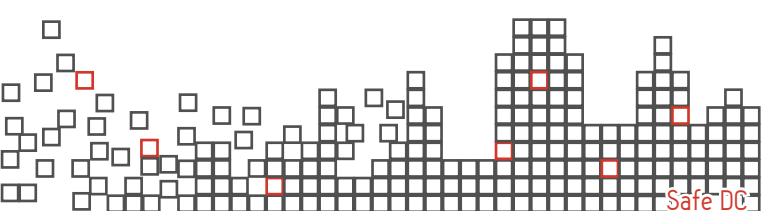
SWITCHING CHARACTERISTICS

LAYER 2 SWITCHING

Spanning Tree Protocol (STP)	Standard Spanning Tree 802.1d
	Rapid Spanning Tree (RSTP) 802.1w
Aggregation	Link Aggregation Control Protocol (LACP) IEEE 802.3ad; Up to 12 groups ; Up to 16 ports per group
VLAN	Supports up to 4K VLANs simultaneously (out of 4094 VLAN IDs) ; Port-based VLAN; 802.1Q tag-based VLAN
IGMP v1/v2 Snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; it supports 1024 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 256 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, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag



SWITCHING CHARACTERISTICS			
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 (802.1p/ CoS)		
Classification	Port based; 802.1p 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; SNTP; cable diagnostics		
GREEN ETHERNET			
Link detection	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ-45 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.			
POE			
PoE Ports	22 ports support PoE Power Pin Type: End-span		
PoE standard	IEEE 802.3af/at		
	15 W / 30 W per port		
Power	Per port PoE function configuration		
PoE budget	210 W		
Output (Smart Backup)	η @ 25% of use load	η @ 75% of use load	η @ 100% of use load
	90.60%	94.50%	94.60%
MINIMUM REQUIREMENTS			
Web browser	Mozilla Firefox version 2.5 or later, Microsoft Internet Explorer version 6 or later		
Network cable	Ethernet network cable category 5 or more		
Rack mounting	Rail to place the product in the bay		
COMMUNICATION			
Communication speed	Ethernet ports	10 / 100 / 1000 Mbps	
	SFP ports	100 / 1000 Mbps	
	Combo ports	either 10 / 100 / 1000 Mbps (Ethernet) or 100 / 1000 Mbps (SFP)	
Application layer protocols	HTTPS, BACnet IP, SNMP, DHCP		
Network layer protocols	IPv4, ICMP		

SIGNALING

1 LED for the "PoE Load" level on the front panel

1 LED for the product "Status" on the front panel

22 LEDs indicate the PoE activity of each port on the front panel

22 LEDs indicate the data transmission activity on the corresponding port in 100 Mbps (yellow)

22 LEDs indicate the data transmission activity on the corresponding port in 1 Gbps (green)

ENVIRONMENTAL SPECIFICATIONS**TEMPERATURE**

Storage	-25°C ... +60°C
Operating	at 100% load: -10°C ... +45°C
	at 75% load: -10°C ... +50°C

HUMIDITY

Storage	relative humidity 10% ... 90%
Operating	relative humidity 20% ... 85%

ALTITUDE

Above 2,000 m, the temperature decreases by 5% every 1,000 m.

COOLING

The cooling is carried out transversally.

SERVICE LIFE

10 years at 25°C product external environment, rated mains voltage, 75% load

ELECTRICAL CHARACTERISTICS**NETWORK INPUT**

AC network voltage	195 V ... 265 V
Frequency	45 Hz ... 65 Hz
Class	1
Inrush current	Limited by NTC
Neutral system	TT, TN, IT
Protection against	primary short-circuit and differential mode shock waves
Primary current @ 195 V	2 A
Primary current @ 265 V	2 A

FUNCTIONAL CHARACTERISTICS

Operates in power-saving mode when the backup is charged.

On/Off function per 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 $P_n + 10\%$.Against overcurrent and short-circuits by disconnecting the PoE port to $I > I_n + 10\%$.**SMART BACKUP**

SDC-PoE24 is available in 2 backup packs	6F	6I
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Latest generation Lithium-ion LiFePO4 Technology (no risk of thermal runaway).

Lead-free, cadmium-free, 100% recyclable.

Storage: 9 months without recharging.

10 year service life.

Advanced management settings, cell balancing, overload and overvoltage protection.

BACKUP DURATION ACCORDING TO OUTPUT POWER

Operating power	Backup F	Backup I
	Autonomy expressed in hours and minutes	
10 W	1h35	3h10
20 W	1h12	2h24
30 W	0h58	1h56
40 W	0h48	1h37
50 W	0h41	1h23
60 W	0h36	1h13
70 W	0h32	1h04
80 W	0h29	0h58
90 W	0h26	0h52
100 W	0h24	0h48
110 W	0h22	0h44
120 W	0h20	0h41
130 W	0h19	0h38
140 W	0h17	0h35
150 W	0h16	0h33
160 W	0h15	0h31
170 W	0h14	0h29
180 W	0h14	0h28
190 W	0h13	0h27
200 W	0h12	0h25
210 W	0h12	0h24

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	10BaseT
IEEE 802.3u	100BaseT(X) and 100BaseFX
IEEE 802.3ab	1000BaseT(X)
IEEE 802.3z	1000BaseX
IEEE 802.3x	Flow Control
IEEE 802.3af	PoE
IEEE 802.3at	PoE+
IEEE 802.3az	Energy Efficient Ethernet

ELECTRICAL STANDARDS

Safety	EN 62368-1 (2014)
EMC - Immunity	EN 61000-6-1 (2007), EN 61000-6-2 (2006)
EMC - Emissions	EN 61000-6-3 (2007), EN 61000-6-4 (2007) + A1 (2011)
	EN 61000-3-2 (2006) (A class)
	EN 55022 (2010) (B class)

SECURITY

Transportation security	UN 38.3
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PRODUCT REFERENCES

Interpretation of the product reference designations : **SDC-POE 6[Backup] RK2 P24**

Available at www.slat.com and SLAT catalog.

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