

SNMP / BACnet IP communication

SDC-PoE 24 is a PoE / PoE + managed layer 2+ switch, with built-in micro-UPS function (Lithium LFP battery). With 24 full-Gigabit ports including 4 SFP ports 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 +.

Boxes	Size W x H x D (mm)	Weight (kg)	Materials	Protection rating	Installation	
Rack 2U						
	446 x 85 x 380 (without connectors)	7 - 7.7	Painted metal	IP30	Rack / Shelf placement	
Connections	1		1 1			
Mains	IEC connector					
PoE ports	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 PoE/SFP	I				
> 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 КВ				
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 (IPSG)		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 storr 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	5				
Cabaduling	Strict priority and weighted	Strict priority and weighted round-robin (WRR)				
Scheduling	Queue assignment based on	Queue assignment based on DSCP and class of service (802.1p/ CoS)				
Classification	Port based; 802.1p VLAN prio	Port based; 802.1p VLAN priority based; IPv4 precedence/ type of service (ToS) / DSCP based				
Rate Limiting	Ingress policer; egress shapi	Ingress policer; egress shaping and rate control; per VLAN, per port and flow based				
Management (Web/SSL, SNMP, BACnet)						
Web GUI interface	0	Built-in switch configuration utility for browser-based device configuration (HTTPS). Supports configuration, system dashboard, maintenance and monitoring.				
Firmware upgrade	Web browser upgrade (HTTF	Web browser upgrade (HTTPS)				
Port Mirroring	or RMON probe. Up to N-1 (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; HTTF	Single IP management; HTTPS; RADIUS; DHCP Client; SNTP; cable diagnostics				
Green Ethernet	· · · · · · · · · · · · · · · · · · ·					
Link Detection	power on Gigabit Ethernet R	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 D etection	Adjusts the signal strength b for shorter cables.	Adjusts the signal strength based on the cable length. Reduces the power consumption for shorter cables.				
Eco Mode	Shifts automatically to powe	r-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 a	done via the embedded website.					
> PoE						
PoE Ports	22 ports support PoE Power	22 ports support PoE Power Pin Type: End-span (Mode A)				
PoE standard	IEEE 802.3af/at	IEEE 802.3af/at				
	15 W / 30 W per port					
Power	Per port PoE function config	Per port PoE function configuration				
PoE budget	210 W	210 W				
Output (Smart Backup)	η @ 25% loading	η @ 75% loading	η @ 100% loading			
	90.60%	94.50%	94.60%			
> Minimum requirements						
Web browser	Mozilla Firefox version 2.5 or	r later, Microsoft Internet Expl	lorer version 6 or later			
Network cable	Ethernet cable Cat 5e or mo	Ethernet cable Cat 5e or more / shielded or unshielded / straight or twisted				
Rack mounting	Rail to place the product in t	Rail to place the product in the bay				
> Communication						
Communication speed	PoE ports	10 / 100 / 10	10 / 100 / 1000 Mbps			
	SFP ports	100 / 1000 M	Иbps			
	Combo ports		00 / 1000 Mbps (PoE) 0 Mbps (SFP)			
Application layer protocols	HTTPS, BACnet IP, SNMP, DH	HTTPS, BACnet IP, SNMP, DHCP				
Network layer protocols	IPv4, ICMP					



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> 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 i	n 100 Mbps (yellow)		
22 LEDs indicate the data transmission activity on the corresponding port i			
> Environmental specifications			
Temperature			
Storage	-20°C à +45°C		
	at 100% load: -10°C +45°C		
Operating	at 75% load: -10°C +50°C		
Humidity			
Storage	relative humidity 10% to 90%		
Operating	relative humidity 20% to 85%		
Altidude			
Above 2,000 m, the temperature decreases by 5% every 1,000 m.			
Cooling			
The cooling in carried out transversally.			
Service life			
10 years at 25°C product external environment, rated mains voltage, 75%	oad		
> Electrical characteristics			
Network Input			
AC network voltage	198 to 264 V AC		
Frequency	45 to 65 Hz		
Class	Class 1		
Inrush current	Limited by NTC		
Neutral system	TT, TN, IT		
Protection against	primary short-circuit and differential mode shock waves		
Primary current @ 198 V	2 A		
Primary current @ 264 V	2 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 P_n +10%.			
Against overcurrent and short-circuits on the output by disconnecting the	PoE port at $I > I_n + 10\%$.		
Smart Backup			
SDC-PoE 24 is available in 2 backup packs	6F 6J		
Latest generation Lithium 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		



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	Backup 6F	Backup 6J		
Operating power	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 0h14	0h31 0h29		
170 W 180 W	0h14	0h28		
190 W	0h13	0h27		
200 W	0h12	0h25		
210 W	0h12	0h24		
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• Standards				
EEE standards	1			
EEE 802.1D	Standard Spannin	Standard Spanning Tree		
EEE 802.1W	Rapid Spanning Tr	Rapid Spanning Tree (RSTP)		
EEE 802.1Q	VLAN	VLAN		
EEE 802.1X	Radius	Radius		
EEE 802.3AD	Link Aggregation (Control Protocol (LACP)		
EEE 802.3I	10BaseT			
EEE 802.3u		100B356EV		
	100BaseT(X) and 2	10008361 V		
EEE 802.3ab		1000BaseT(X)		
EEE 802.3z		1000BaseX		
EEE 802.3x	Flow Control	Flow Control		
EEE 802.3af	PoE	POE		
EEE 802.3at	PoE+	PoE+		
EEE 802.3az	Energy Efficient E	Energy Efficient Ethernet		
lectrical standards	I.			
afety	EN 62368-1 (2020)) + A11 (2020)		
MC - Immunity		EN 61000-6-1 (2020) + A11 (2020) EN 61000-6-1 (2007), EN 61000-6-2 (2019)		
MC Emissions		EN 61000-6-3 (2007), EN 61000-6-4 (2019)		
MC - Emissions		EN 61000-3-2 (2019) (class A)		
	EN 55032 (2015) (EN 55032 (2015) (class A)		
ecurity				
ransportation security	UN 38.3			

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