

D51-DC series

Industrial L2 Gigabit PoE Switches w/ 12~56VDC Input



















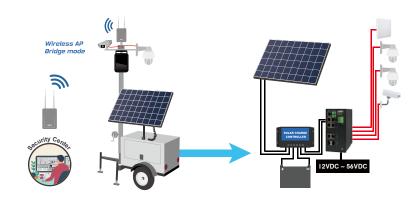
The D51 series of Industrial L2 PoE Switches are designed with 6KV Ethernet port surge protection and harden-graded standard to operate between -40°C and 75°C for harsh weather conditions. They enable outdoor connections of PoE PDs to the network such as outdoor IP cameras, wireless APs, and other outdoor industrial applications.

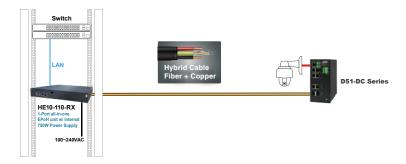
The D51 series provides multi-port Gigabit PoE (10M/100M/1G) delivering data and power to PoE PDs over a single network cable and additional SFP transceiver slots for flexible uplink. The D51 series has three sub models classified as power source equipment (PSE) and provide PoE budget up to 30W or 90W per port.

Features

- Layer 2 Switch
 - 802.1d (STP), 802.1w (RSTP), 802.1s (MSTP)
 - Loop protection
 - SNMP v1/v2c/v3
 - QoS
 - VLAN
 - Ethernet cable length measurement
 - DHCP Server
- · Flexible SFP transceiver ports for uplink
- Operating temperature between -40°C and 75°C
- Compliant IEEE802.3at 30W per port (D51-044-30-DC, D51-084-30-DC)
- Configures proper 90W mode each port via GUI to fit respective bt PoE PD (D51-044-91-DC)
- Supports 10/100/1000Mbps data rates
- 6KV PoE surge protection
- IEEE 802.3az Energy Efficient Ethernet standard for green power

Applications





Technical Specifications - Software

PoE Management				
Port Configuration	Supports per port PoE configuration function			
PoE Scheduling	Supports per port PoE scheduling to turn on/off the PoE devices (PDs).			
Auto-checking	Check the link status of PDs. Reboot PDs if there is no responses			
Power Delay	The switch provides power to the PDs based on delay time when PoE switch boots up, in order to protect switch from misuse of the PDs.			
Layer 2 Switching Specifications				
Spanning Tree Protocol	MAC Bridges Standard Spanning Tree (STP) 802.1d, Rapid Spanning Tree (RSTP) 802.1w, Multiple Spanning Tree (MSTP) 802.1s			
IP/Mac Port Trunking	Link Aggregation Control Protocol (LACP) IEEE 802.3ad , Static aggregation.			
VLAN	Supports up to 4K VLANs simultaneously (out of 4096 VLAN IDs), Port-based VLAN, 802.1Q tag-based VLAN			
IGMP v1/v2 Snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters.			
Layer 3 Switching Specifications				
DHCP Server	Assign IP to DHCP clients			
Security				
Port Security	Locks MAC addresses to ports, and limits the number of learned MAC address			
Storm Control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port			
Loop Protection	To prevent unknown unicast, broadcast and multicast loops in Layer 2 switching configurations.			
QoS				
Classification	Port based, 802.1p VLAN priority based			
Bandwidth Control	Ingress policer, Egress shaping and rate control, Per port			
Management software				
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 single destination port. A single session is supported.			
IEEE 802.1ab (LLDP)	Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802ab local area network, Support LLDP-MED extensions			
Web GUI Interface	Built-in switch configuration utility for browser-based device configuration			
SNMP	SNMP version 1, 2c, 3			
Flow Control	The IEEE 802.3x standard for monitoring high speed switched networks. It gives complete visibility into the use of networks enabling performance optimization, accounting/billing for usage, and defense against security threats			
Firmware Upgrade	Web browser upgrade HTTP and TFTP			
NTP	Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched			
Other Management	System, HTTP, DHCP Client, Cable Diagnostics, Syslog, IPV4 Management, SSH, Telnet			

Specifications

	D51-044-30-DC	D51-044-91-DC	D51-084-30-DC
Networking Specifications			
Total Gigabit Ports	8	8	12
Gigabit PoE Ports (10M/100M/1G)	4 x 30W PoE	4 x 90W bt	8 x 30W PoE
SFP Slots (100M/1G)	2	2	4
Gigabit Ports (RJ45)	2	2	-
Forwarding Capacity	11.904Mpps	11.904Mpps	17.856Mpps
Mac Table	8 k	8 k	8k
Jumbo Frames	9,216 Bytes	9,216 Bytes	9,216 Bytes
Switching Capacity	16 Gbps	16 Gbps	24 Gbps
Power Specifications			
Input Voltage	12VDC ~ 56VDC x2	12VDC ~ 56VDC x2	12VDC ~ 56VDC x2
Output Voltage Range /per PoE Port	PoE 802.3af (15.4W)output PoE+ 802.3at (30W) output	PoE 802.3af (15.4W)output PoE+ 802.3at (30W) output PoE++ 802.3bt (90W) output	PoE 802.3af (15.4W)output PoE+ 802.3at (30W) output
PoE Power Budget	12VDC:90W 24VDC:120W 48VDC:120W	12VDC:90W 24VDC:160W 48VDC:360W	12VDC:90W 24VDC:160W 48VDC:240W
Surge Protection /each PoE Port	6KV	6KV	6KV
Mechanical Specifications			
Dimensions (L x W x H)	72 x 150 x 122 mm	72 x 150 x 122 mm	72 x 150 x 122 mm
Weight	1KG	1KG	1KG
DI/DO	1/1	1/1	1/1
Console	RJ45	RJ45	RJ45
Reset Button	Yes	Yes	Yes
Environmental Specifications			
Operating Temperature	-40°C~75°C (-40°F~167°F)	-40°C~75°C (-40°F~167°F)	-40°C~75°C (-40°F~167°F)
Storage Temperature	-40°C~85°C (-40°F~185°F)	-40°C~85°C (-40°F~185°F)	-40°C~85°C (-40°F~185°F)
Operating Humidity	5%~95% non-condensing	5%~95% non-condensing	5%~95% non-condensing
Certifications			
EMC	CE,FCC,C-Tick	CE,FCC,C-Tick	CE,FCC,C-Tick
Surge	EN61000-4-5	EN61000-4-5	EN61000-4-5

Ordering Information



SFP Modules



SFP-ISX-X5 Industrial Gigabit SFP Transceiver

- MMF 0.5 km -40°C ~85°C



SFP-ISX-02 Industrial Gigabit SFP Transceiver

- MMF 2 km -40°C ~85°C



SFP-ILX-10 Industrial Gigabit SFP Transceiver

- SMF 10 km -40°C ~85°C



SFP-ILX-40 Industrial Gigabit SFP Transceiver

- SMF 40 km -40°C ~85°C







NDR-120-48 48~55VDC/120W, -20°C ~ 70°C



NDR-240-48 Indoor Industrial Din Rail Power Supply, Indoor Industrial Din Rail Power Supply, Indoor Industrial Din Rail Power Supply,

48~55VDC/240W, -20°C ~ 70°C



48~55VDC/480W, -20°C ~ 70°C



NDR-480-48



HLG-120H-54



HLG-240H-54

Outdoor Industrial Power Supply 54VDC/120W, -40°C ~ 70°C, IP67

Outdoor Industrial Power Supply 54VDC/240W, -40°C ~ 70°C, IP67