

An important breakthrough, Configure-free Gigabit PoE++ (bt 90W) Switch for System Integrators.

DCN-PS-4P-GB150, an ideal gigabit PoE++ switch, provides a cost-effective advantage to local area networks of SMBs. Offering Layer 2 data packet switchingand stable operation, this model also complies with IEEE 802.3bt ultra Power over Ethernet Plus (PoE++) at an affordable price. By offering reliable switching technology and advanced networking features, the DCN-PS-4P-GB150optimizes the installation and power management of network devices such as wireless access points, VoIP phones, and PTZ cameras.

The DCN-PS-4P-GB150 is equipped with 5- 10/100/1000BASE-T Gigabit Ethernet ports and 1-1000BASE-X SFP interfaces with inner power system. Its 4 Gigabit Ethernet ports are integrated with an 802.3bt PoE++ up to 90W injector function. It offers a wall-mountable, safe and reliable power solution for SMBs deploying Power over Ethernet networks.

The PoE in-line power following the IEEE 802.3bt/at/af standard makes the DCN-PS-4P-GB150 able to deliver Gigabit speed data and up to 90 watts of power port to 4 PoE compliant powered devices (PDs) with a combined power output budget of up to 120 watts. The SDCN-PS-4P-GB150 provides more flexibility in power requirement for all kinds of PDs with affordable installation costs.

Highlights

Datacomm Networks gigabit unmanaged PoE++ switches provides a great value, By offering reliable switching technology and advanced networking features, the PoE++ switch optimizes the installation and power management of network devices such as wireless access points, LED lighting, and PTZ cameras. It also eliminates time and cost of deployment by integrating power and data switching into one unit and freeing network devices from restrictions of power outlet locations and the additional AC wiring.



Key features include:

- Complies with IEEE 802.3af/at/bt Power over Ethernet end-span PSE
- Up to 90W of IEEE 802.3af/802.3at/802.3bt devices powered
- Supports PoE power up to 90 watts for PoE port, all PoE budget 112W.
- PD alive check function
- Each port supports 52V DC power to PoE powered device
- Auto detects powered device (PD)
- Circuit protection prevents power interference between ports
- Remote power feeding up to 100m
- Hardware-based 10/100/1000Mbps auto-negotiation and auto MDI/MDI-X
- Flow control for full duplex operation and back pressure for half duplex operation
- Integrates address look-up engine, supporting 8K absolute MAC addresses
- · Automatic address learning and address aging
- Supports Energy-Efficient Ethernet (EEE) function (IEEE 802.3az)

Build a future-proof network with DCN:

- Solidperformancewithnon-blockingarchitecture, 8K MAC addresses, 12Gbps Backplane bandwidth, 8.93Mpps Switch Throughput , 9216 bytes Jumbo Frame
- Up to 4 ports of IEEE 802.3af/802.3at/802.3bt devices powered
- PoE++ support on 1-4 ports, PoE power up to 90 watts for each PoE port
- 1 Dedicated SFP fiber uplink, Extends network distance with highly Gigabit performance via fiber optic cable.

802.3bt PoE++ 90-watt for high power consuming network PD

• Adopts the IEEE802.bt PoE++ standardtechnology, it is capable to source up to 90 watts of power by using all the four pairs of standard Cat5e/6 Ethernet cabling to deliver power and full-speed data to each remote PoE compliant powered device (PD). Its power capability is three times more than that of the conventional 802.3at PoE+ and it is an ideal solution for those high power consuming network PDs.

DCN Quality and Reliability

- Low powerconsumption, fanless, high-strength metal casing.
- High redundancy design, providing a long termand stable PoE power output.
- CE, FCC, RoHS,CB.
- The user-friendly panel can show the device status through the LED indicator of PWR, Link.

Easy operation and maintenance

- Hardware-based 10/100/1000Mbps auto-negotiation and auto MDI/MDI-X.
- Flow control for full duplex operation and back pressure for half duplex operation
- Supports Energy-Efficient Ethernet (EEE) function (IEEE 802.3az)
- Rack mount installation, Silent Operation
- Plug and play, No configuration required

Hardware at a Glance

FRONT					SIDE	
Model Name	10/100/1000Base-T RJ45 ports	1GBASE-X Fiber SFP Ports	PoE++ 802.3bt/at/af Ports	Power Budget	Power Supply	Fans
DCN-PS-4P-GB150	5	1	4 PoE++	120W	1 internal PSU, fixed	Fanless

Performance at a Glance

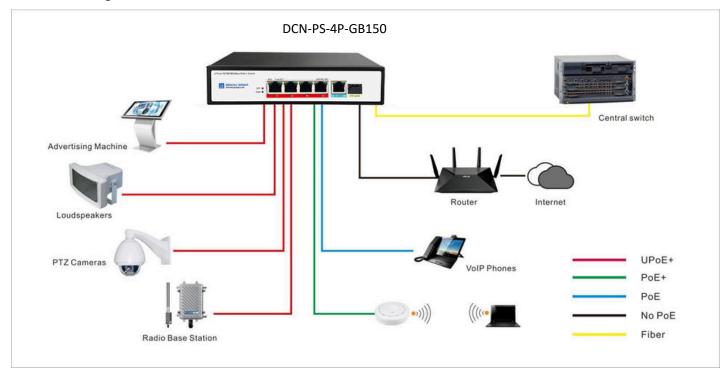
Model Name	Packet buffer	Chip	Fabric	Switch Throughput@64bytes	MAC Address Table	Jumbo Frame	Latency (Max Connection Speed)
DCN-PS-4P-GB150	1.2MB	Realtek	12Gbps line-rate	8.93Mpps	4K	9216 bytes	1G Copper: <3.35μs 1G Fiber: <2.5μs

Features and Benefits

Hardware Features			
1000BASE-T Copper Ethernet PoE++ connections	Support LED lighting, PTZ Camera and Wi-Fi 6 AP deployments, scal-able for future growth. Never face the risk of running out of PoE ports. One 1G SFP ports for aggregation to the network core. Support for Fiber and		
1GBASE-X Fiber SFP ports	Copper modules. 120W PoE budget available across 4 Gigabit PoE++ ports – Connect		
Great choice of PoE port counts and PoE power budgets that can adapt to the business's needs	multiple power demanding devices to your network with a single wire for power and connectivity. Maximum power reduction for onging operational cost savings.		
Energy Efficient Ethernet (IEEE 802.3az)			

Target Application

Network Convergence

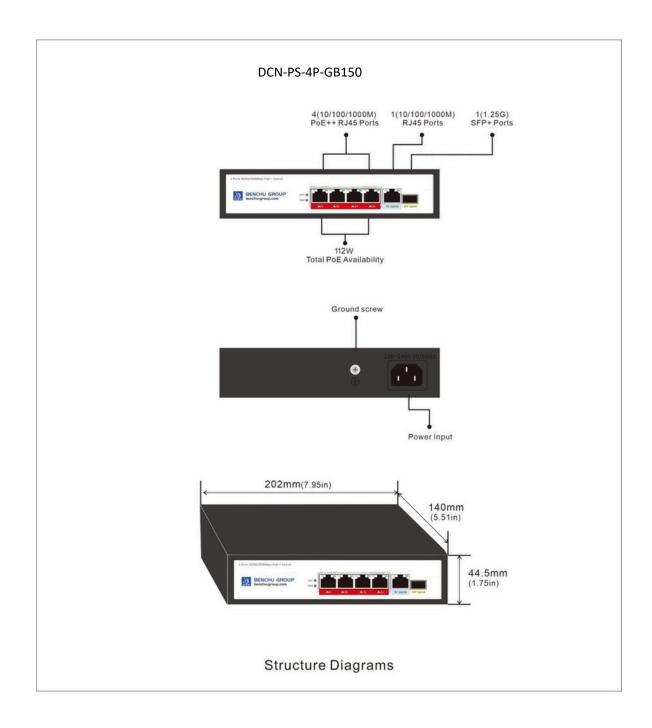


Within small and medium-sized organizations — especially in the hospitality, catering, education, and retail industries — there is growing deployment of VoIP phones, IP security cameras, video-over-IP endpoints, proximity sensors, LED lighting, secure access door locks, and other IoT devices. The dense proximity of these devices requires network switches capable of supporting PoE so a network manager can add power-hungry devices to the network with a single wire for power AND connectivity. Wave 2 802.11ac wireless access points and pan-tilt-zoom HD surveillance cameras with features such as night vision and built-in motion tracking also require PoE++ power (802.3bt), increasing the power demands on PoE++ switches. The new 4-port DCN PoE++ Switches support dense deployments of these modern high-power PoE++ devices. with enhanced performance and a focus on usability within commercial environments:

- 4 Gigabit PoE++ ports with 120W Power budget
- 1 x 1Gb RJ45 and 1 x 1Gb SFP fiber ports for aggregation to the network core to facilitate users' flexible networking
- Comply with IEEE 802.3 af/at/bt PoE power supply standard, automatically identify PoE equipment for power supply.
- Built-in 802.3bt type-4 PoE 90W injector function
- Support non-blocking wire-speed forwarding.
- Plug and play, no configuration, simple and convenient.
- Limited Lifetime* Warranty, Tech support



Structure Diagrams







Technical Specifications	DCN-PS-4P-GB150		
10M/100M/1G RJ-45 copper ports	5		
1G SFP (fiber) ports PoE /	1		
PoE+/PoE++ ports Power over	4 PoE++		
Ethernet			
	IEEE 802.3bt Power over Ethernet Plus+/PSE		
PoE Standard	IEEE 802.3at Power over Ethernet Plus/PSE		
	Backward compatible with IEEE 802.3af Power over Ethernet		
PoE Power Supply Type	1/2 /4/5(+), 3/6/7/8 (-)		
	Per port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3af)		
PoE Power Output	Per port 52V DC, 600mA. max. 30 watts (IEEE 802.3at)		
	Per port 52V DC, 1800mA. max. 90 watts (IEEE 802.3bt)		
PoE Power Budget	120 Watts		
Performance Specification			
Chip	Realtek		
Packet buffer memory (Dynamically shared	4 2 Mile		
across only used ports)	1.2 Mb		
Forwarding modes	Store-and-forward		
Bandwidth	12 Gbps		
Packet forwarding rate (64 byte packet size)	0.0314		
(Mpps)	8.93Mpps		
MAC address database size (48-bit MAC	8K		
ad-dresses)	ON		
Jumbo frame support (bytes)	Up to 9K packet size		
Forwarding Mode	Store and Forward(Full Wire Speed)		
Mean Time Between Failures (MTBF) @ 25°C	121,123 hours		
100M Copper Latency (64-byte; 1518-byte;			
9216-byte frames)	8.314μs; 8.412μs; 8.551μs		
1G Copper Latency (64-byte; 1518-byte;	2.444 2.545 2.525		
9216-byte frames)	3.414µs; 3.545µs; 3.628µs		
1G Fiber Latency (64-byte; 1518-byte;	2.980µs; 3.101µs; 3.179µs		
9216-byte frames)	2.3ουμs, 5.101μs, 5.173μs		





IEEE Network Protocols	DCN-PS-4P-GB150		
 IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-T IEEE 802.3ab 1000BASE-T IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX IEEE 802.3az Energy Efficient Ethernet (EEE) 	 IEEE 802.3af PoE IEEE 802.3at PoE+ IEEE 802.3bt PoE+ IEEE 802.3x Full-Duplex Flow Control 		
Monitoring			
LEDs	Yes		
Per port	Speed, Link, Activity; PoE in different mode		
Per device	Power		
Physical Specifications			
Dimensions	202 x 140 x 44.5mm(7.95 x 5.51 x 1.75 in)		
Weight	1.1 kg(2.43 lb)		
Power input	AC 100~240V 50/60Hz		
Power Consumption (when all ports used, linerate traffic and max PoE)	120W		
Max power (worst case, all ports used, full PoE, line-rate traffic) (Watts)	7W		
Iddle power consumption (all ports link-down standby) (Watts)	5W		
Energy Efficient Ethernet (EEE) IEEE 802.3az	Yes (deactivated by default)		
Fan	Fanless		
Environmental Specifications			
Operating			
Operating Temperature	-20° to 50°C(-4° to 122°F)		
Humidity	90% maximum relative humidity (RH), non-condensing		
Altitude	10,000 ft (3,000m) maximum		
Storage			
Storage Temperature	−20° to 70°C(−4° to 158°F)		
Humidity (relative)	95% maximum relativehumidity, non-condensing		
Altitude	10,000 ft (3,000m) maximum		



Electromagnetic Emissions and Immunity

CE mark, commercial

FCC Part 15 Class A, VCCI Class A

Class A EN 55022 (CISPR 22) Class A

Class A C-Tick

Certifications

EN 55024

CCC

47 CFR FCC Part 15, SubpartB, Class A ICES-003: 2016 Issue 6, Class A

ANSI C63.4:2014

IEC 60950-1:2005 (ed.2)+A1:2009+A2:2013AN/NZS CISPR 22:2009+A1:2010 CLASS A

Safety

CB mark, commercial

CSA certified (CSA 22.2 #950)

UL listed (UL 1950)/cUL IEC 950/EN 60950

Certifications

EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 IEC 60950-1:2005

(ed.2)+A1:2009+A2:2013

AN/NZS 60950.1:2015

CCC (China Compulsory Certificate)

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Hardware Limited Warranty

Limited Lifetime*

Technical Support via Phone and Email*

Limited Lifetime*

Limited Lifetime* 24x7 Online Chat Technical

Limited Lifetime*

Support

Package Contents

Smart PoE++ Switch

Sillart FOLTT SWITCH

All models

AC Power cord with C13 connector (localized to region of sale)

Rubber protection caps, which are already installed in the SFP sockets Installation guide

User's manual