

BC2224PE2GCF-300W

24-Port 100M Unmanaged PoE Switch

Datasheet

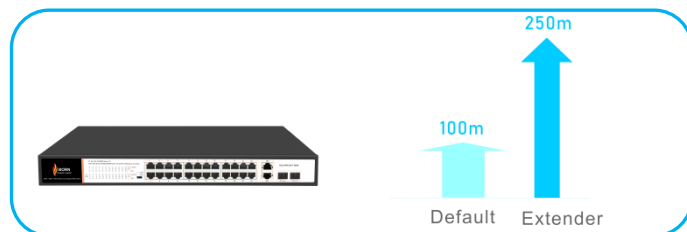


Key Features:

- Ports:** Provide 24*10/100Mbps PoE ports and 2 *1000M RJ45/SFP Combo Uplink
- PoE Standard:** IEEE802.3af/at Power over Ethernet (PoE) Compliant
- Total Power:** Total power budget of 300W and 30W for all single PoE ports
- Self-adaption:** RJ45 port supports 10/100Mbps Auto MDI/MDIX
- Wide Application:** Designed for Wifi AP and IP Security camera.VoIP etc
- Surge protection:** Protect the device from lighting surges and others electrical hazards
- Considerate Design:** Rack mount installation with fanless design
- Easy to use:** Plug and play, No configuration required

Versatile PoE Port

Featuring 24* 10/100Mbps PoE AI ports which support IEEE802.3af/at standard with 2*1000M RJ45 and 2 SFP Uplink. This PoE switch provides Maximun power budget of 300W and 30W for single PoE ports sepectively,allowing users to have several different Networking products configured

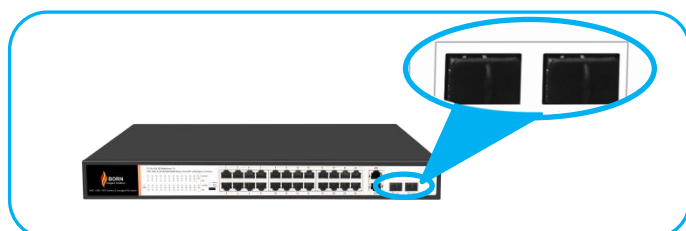
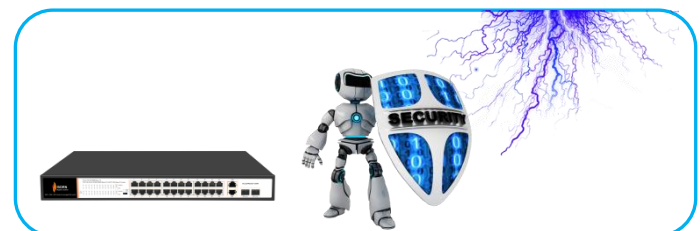


Flexible Extend Mode

With the extend mode, the PoE Switch Series is able to offer more flexible choices for long range transmission, extending the distance up to 250m, which is greatly helpful to bring better user experience.

Surge Protection Design

Reaching 6KV surge protection, the PoE ports owns the capacity to keep the PoE Switch from lightning strikes and other electrical surges, offering reliable performance even in some harsh environments.



Gigabit SFP Uplink Port

With 2 SFP module slot available, the SFP uplink port is ideal for connecting the switch to the network's backbone, providing more than enough bandwidth and stability for ultra high speed data transferring, Beside the SFP can transmittte the date with Max 100Km distance with more economic solution

BC2224PE2GCF-300W

24-Port 100M AI PoE Switch with 2 Gigabit Combo Uplink

Technical Datasheet

Model	BC2224PE2GCF-300W
Hardware Specifications	
Fixed Port	24*10/100BASE-T RJ45 ports with PoE (Data+Power) 2*10/100/1000BASE-T RJ45 ports(Data) 2*1000 Base-X SFP Slots(Data)
Ethernet Port	Port 1-24 support 10/100Base-TX auto-sensing. Port 25-26 support 10/100/1000Base-TX auto-sensing. All Ethernet ports support full/ half duplex MDI/ MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤250 meters) 100BASE-TX: Cat5 or later UTP (≤100 meters) 1000BASE-T: Cat5e or later UTP (≤100 meters)
Optical Fiber Port	Gigabit optical fiber port, default no include optical module (optional single-mode/ multi-.mode, single fiber/ dual fiber optical module.LC)
Optical Cable/ Distance	Multi-mode: 850nm/ 0-550m Single-mode:1310nm/0-40km,1550nm/ 0-120km
Functional Switch	VLAN Mode: Features port-based VLAN function that helps to prevent the multicast or broadcast storm from influencing each other. Extend Mode: Operates on a per-port basis at 10Mbps duplex operation but support PoE power output over a distance of up to 250 meters on ethernet UTP cable. Default Mode: Switch is in initial state
LED indicators	Power Indicator: PWR(green). Network Indicator: Link(yellow) PoE Working Indicator: PoE(green)
Thermal Fan	Fanless Design
Chip Parameter	
Network Protocol	IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T,IEEE802.3z 1000Base-X,IEEE802.3x
Switch Architecture	Store and Forward
Backplane bandwidth	12.8Gbps
Packet forwarding rate	9.52Mpps
MAC address	4K
Buffer Memory	3.2M
Jumbo Frame	9K
100M Copper Latency	8.321μs; 8.623μs; 8.449μs (64-byte; 1518-byte; 9216-byte frames)
1G Copper Latency	3.606μs; 3.541μs; 3.615μs (64-byte; 1518-byte; 9216-byte frames)
1G Fiber Latency	2.978μs; 3.105μs; 3.176μs(64-byte; 1518-byte; 9216-byte frames)

PoE & Power Supply

PoE Port	Port 1-24
----------	-----------

PoE Standard	IEEE 802.3af Power over Ethernet/PSE IEEE 802.3at Power over Ethernet Plus/PSE
--------------	---

PoE Supply Type	1/2(+), 3/6(-) End-span
-----------------	-------------------------

PoE Power Output	Per Port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3af) Per Port 52V DC, 600mA. max. 30 watts (IEEE 802.3at)
------------------	--

PoE Power budget	270 Watt (All PoE Port)
------------------	-------------------------

Total Power Budget	300 Watt (when all ports used, line-rate traffic and max PoE)
--------------------	---

Power Consumption	8Watt (all ports link-down standby) (Watts)
-------------------	---

Power Supply	AC100-240V 50/60Hz, Built-in power supply
--------------	--

Physical Parameter

Dimension(WxDxH)	440mm x 290mm x 44.5mm(17.32in x 11.42in x 1.75in)
------------------	--

Weight	3.2kg
--------	-------

Installation	Desktop, Rack mounted
--------------	-----------------------

Environment specification	Operating temperature: -20℃~55℃ , operating humidity: 5%~95% Storage temperature: -20℃~75℃ , storage humidity: 5%~95%
---------------------------	--

Certification & Warranty

Lightning Protection	ESD protection: 4KV
----------------------	---------------------

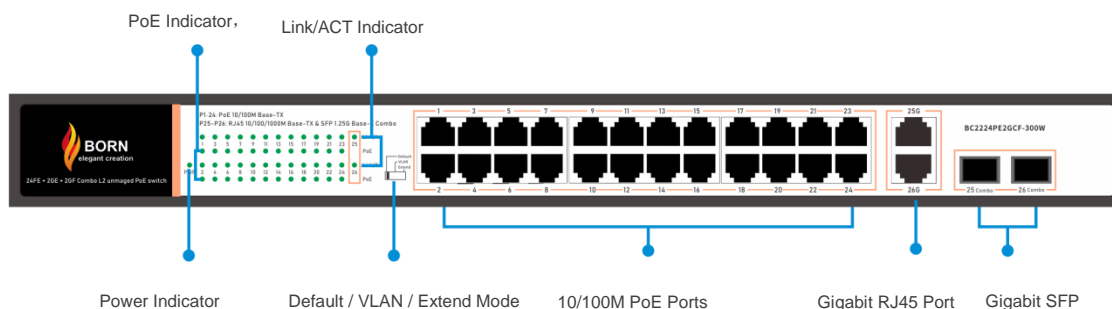
Certification	CE mark, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS
---------------	--

Warranty	2 year
----------	--------

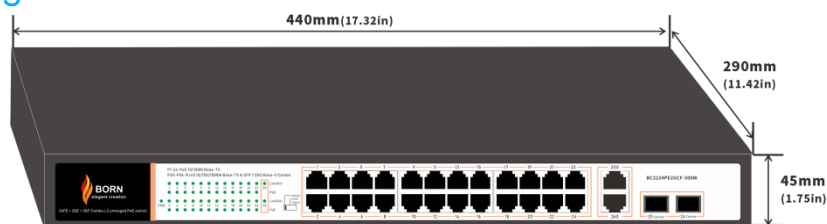
BC2224PE2GCF-300W

24-Port 100M AI PoE Switch with 2 Gigabit Combo Uplink

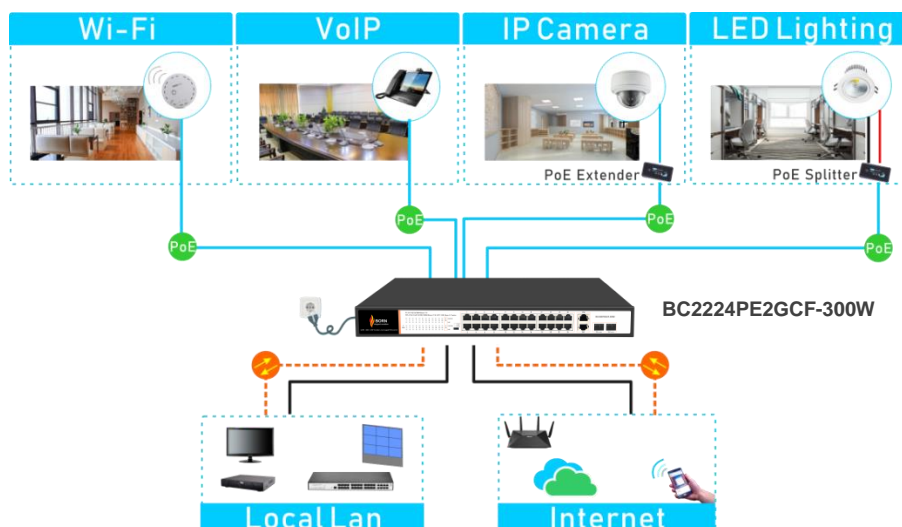
Interfaces



Structure Diagrams



Applications



Ordering Information

BC2224PE2GCF-300W

24 Ports 10/100Mbps AI PoE switch with 2 Gigabit Combo Uplink, 6KV surge protection, 300W, IEEE802.3af/at



337 Forest Road
London, United Kingdom



+44 7859 571344



Info@bornelectronics.com



<https://bornelectronics.com>