

BC2201PDE

1ch 10/100M PoE Extender

Datasheet



Key Features:

- Automatically detects and protects PoE equipments from being damaged by incorrect installation
- Extends the range of PoE to 100 meters (328ft.)
- Power from PoE PSE switch, no local power required
- IEEE 802.3af/at Power over Ethernet compliant
- Plug and Play
- No external power cable required for installation

Long Distance High Power PoE and Gigabit Data Extension Solution

The BC2201PDE from BORN is a newly designed simple device which extends both the reach of Ethernet Data and IEEE 802.3at / 802.3af Power over Ethernet over the standard 100m (328 ft.) CAT. 5/5e/6 UTP cable to 200m, 300m, 400m and maximum 500m. Currently, PoE supported networking devices such as PoE IP Cameras, PoE Wireless Access Points and PoE IP Phones have become the mainstream of network deployment because of the convenience of easy installation regardless of additional power supply. However, limited by the UTP cable specifications, only up to 100 meters (328 ft.) cable could be applied for IP-Based and PoE powered devices (PD) installation. Therefore, the BC2201PDE is designed as the repeater to forward both Ethernet data and high power PoE power and thus extend the range of PoE installation. By just plug and play without additional power supply and set up, one single BC2201PDE can increase the PoE range to 200m. By daisy-chaining multiple BC2201PDE, it offers you great flexibility to extend the distance of PoE network to triple, quadruple further in length or more.

Surge Protection

This PoE Extender is based on the IEC61643-21:2000 standard, Reaching 6KV surge protection, the PoE ports own the capacity to keep the PoE Extender from lightning strikes and other electrical surges, offering reliable performance even in some harsh environments.

Easy Cabling Installation

Providing high power PoE and Ethernet data extension ability, the BC2201PDE is an ideal solution for service providers, campuses and public areas networking applications which require PoE deployment of wireless access points, IP-Based surveillance or IP phones in any places. It enables you to centrally manage the power easily, efficiently and cost effectively. The BC2201PDE offers cost effective and quick solution to double the standard range of PoE from 100 to 200 meters

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Technical Datasheet

Model	BC2201PDE
Hardware Specifications	
Interface	PoE in Port: 1 x 10/100BASE-T Ethernet POE PD In PoE out Port: 1x 10/100BASE-T Ethernet POE PSE Out
LED Indicator	Link/ACT
Switch Architecture	Store-and-Forward switch architecture
MAC Address Table	2K MAC address table with auto learning function
Network Cable	UTP cat 5 or abover
Backplane bandwidth	4Gbps
Packet forwarding rate	4.46Mpps @ 64Bytes
Flow Control	IEEE 802.3x pause frame for full duplex Back pressure for half duplex
ESD Protection	Air 8KV DC Contact 6KV DC
Dimensions (W x D x H)	93 x105 x 29 mm (3.66in x 4.13n x 1.14in)
Weight	0.12kg
Power over Ethernet (PoE) Specifications	
PoE Standard	PoE in Port: IEEE 802.3af/at PoE PD Per PoE out Port: IEEE 802.3af/at PoE PSE
PoE Power	PoE in Port: 48~56V DC, max. 30 watts Per PoE out Port: 48~56V DC, max. 28 watts
Power Pin Assignment	1/2(-), 3/6(+),
PoE Power Budget	30W
Standards Conformance	
Standards Compliance	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.3x Flow Control IEEE 802.3af Power over Ethernet IEEE 802.3at Power over Ethernet Plus
Stability Testing	IEC 60068-2-32 (Free fall) IEC 60068-2-27 (Shock) IEC 60068-2-6 (Vibration)
Temperature	Operating: -20~55 degrees C Storage: -40~75 degrees C
Humidity	Operating: 5~90%, (non-condensing) Storage: 5~90% (non-condensing)
Regulatory Compliance	FCC Class A, CE Class A

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The diagram illustrates the PoE and LINK status for two ports, IN and OUT. For the IN port, the PoE status is yellow (indicating power is being supplied) and the LINK status is green (indicating a connection is established). For the OUT port, the PoE status is yellow (indicating power is being supplied) and the LINK status is green (indicating a connection is established).

36mm

75mm

26mm

IN

PoE LINK

The diagram shows a network topology for PoE extension over three 100m (328ft) segments. It starts with a PoE Switch connected to a 60W PoE Injector. The injector provides power to a PoE Extender via PoE. This extender then provides power to a camera via PoE. The distance between the injector and the first extender is 100m (328ft). The distance between the first extender and the second extender is 100m (328ft). The distance between the second extender and the final camera is 100m (328ft). The diagram also shows that the PoE Switch and the injector are not providing power to the cameras directly, as indicated by the 'No Power' labels and the crossed-out power icons.

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1 Port 10/100Mbps PoE Extender

