6-Port 2.5G GaN Power PoE++ Switch with 10G SFP+ Ports (240W)

TPE-BG5062 (v1.xR)

• 4 x 2.5G PoE++ ports
• 2 x 10G SFP+ ports
• 240W PoE power budget
• High-efficiency GaN internal power supply
• Compatible with existing Cat5e or better cabling
• Backwards compatible with 10/100/1000Mbps devices
• Fanless design eliminates noise
• Rack mountable for installation flexibility
• 60Gbps switching capacity
• IEEE 802.3bz (2.5G) compliant
• Supports IEEE 802.3af/at/bt
• Lifetime Warranty
• NDAA / TAA compliant (U.S. and Canada only)

Expand your network's bandwidth and reduce traffic bottlenecks with TRENDnet's 6-Port 2.5G GaN Power PoE++ Switch with 10G SFP+ Ports (240W), model TPE-BG5062. This 2.5G PoE++ switch is equipped with 2.5GBASE-T RJ-45 ports that provide multi-gigabit speeds capable of up to 2.5Gbps over your existing Cat5e or better cabling. The 10G SFP+ ports provide high-speed 10Gbps network uplinks or downlinks over long distances. This multi-gigabit PoE++ switch features a durable metal enclosure and can be rack mounted for setup flexibility. The fanless design lowers energy consumption and eliminates distracting operating noise.

TRENDnet's reliable 2.5G PoE++ switch is a cost-effective solution to increase your network's throughput. A 240W total PoE power budget on this multi-gig PoE++ switch supplies up to 95W per PoE port. Easily network PoE devices, such as high-power wireless access points, IP cameras, digital signage, IPTV decoders, access controls, and more with this high-power 2.5 gigabit PoE++ switch.

This PoE++ switch uses GaN power technology. GaN technology allows power supply designs to be smaller and more efficient. Compared with traditional power supplies, GaN power supplies take up to 40% less foot print. The increased efficiency reduces heat generated by the internal power supply – reducing the need for fans for silent operations.

2.5G Ports

Equipped with 2.5GBASE-T RJ-45 ports that provide multi-gigabit speeds capable of up to 2.5Gbps over existing Cat5e or better cabling.

PoE++

A 240W total PoE power budget on this 2.5G PoE++ switch supplies up to four PoE++ devices with up to 95W per port.

10G SFP+

Offers two 10G SFP+ ports for high-speed network uplinks or downlink connections for long distance networking.

FEATURES

Easy Installation
No configuration needed, simply connect network devices to the 2.5G multi-gig PoE++ switch

2.5G Ports
Equipped with 2.5GBASE-T RJ-45 ports, this multi-gigabit PoE++ switch provides higher gigabit speeds capable of up to 2.5Gbps over existing Cat5e or better cabling

SFP+ Ports
Equipped with 10G SFP+ ports for long distance fiber networking

PoE++
A 240W total PoE power budget on this 2.5G PoE++ switch supplies up to four PoE/PoE+/PoE++ devices with up to 95W per port

GaN Power Supply
Increased power efficiency while reducing heat and housing size

Backwards Compatibility
Backwards compatible with 10/100/ 1000Mbps legacy devices

Fanless
Fanless design lowers energy consumption and eliminates operating noise

Housing Design
Sturdy metal housing

Jumbo Frame
Sends larger packets, or Jumbo Frames (up to 12KB), for increased performance

Switching Capacity
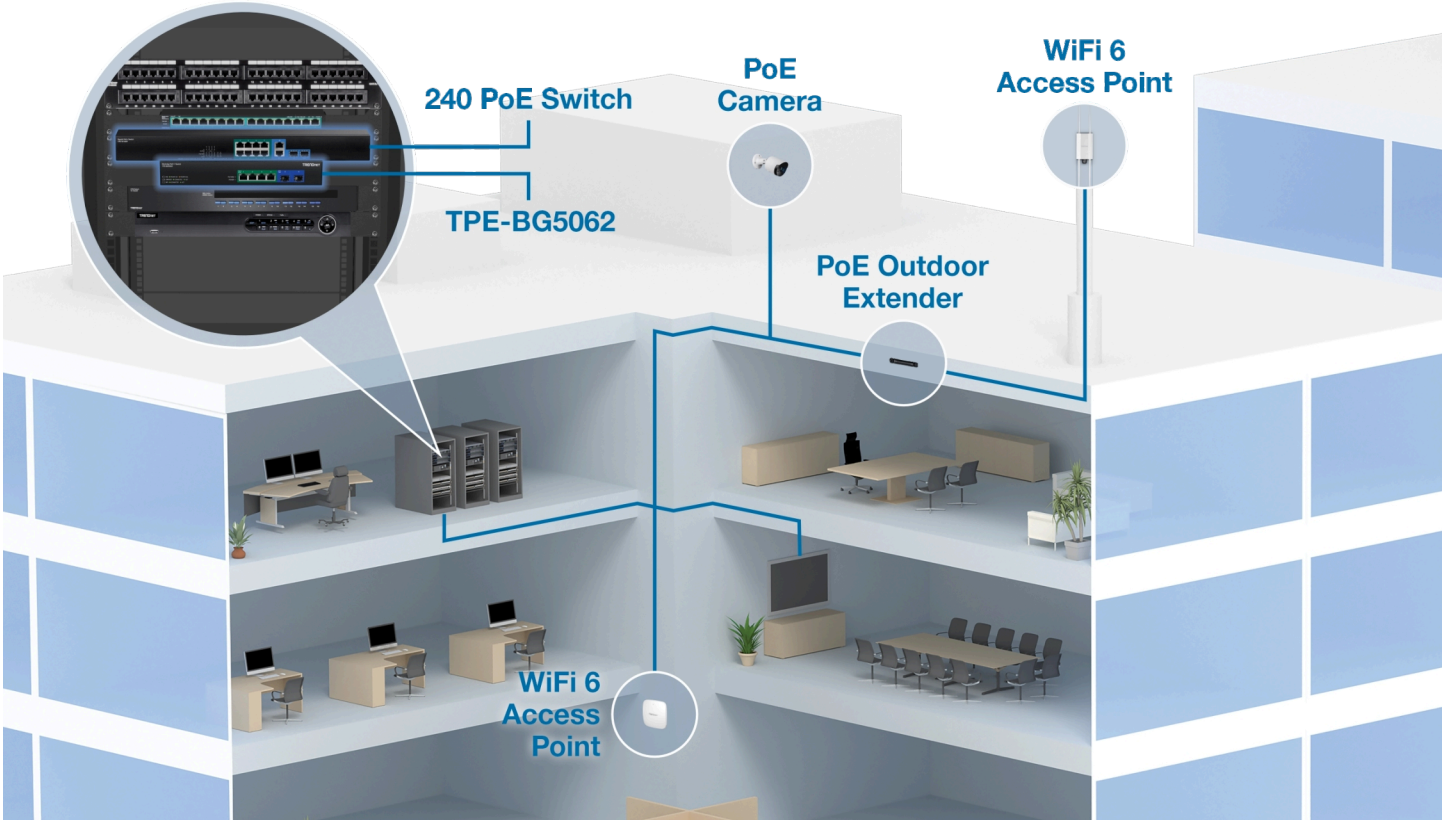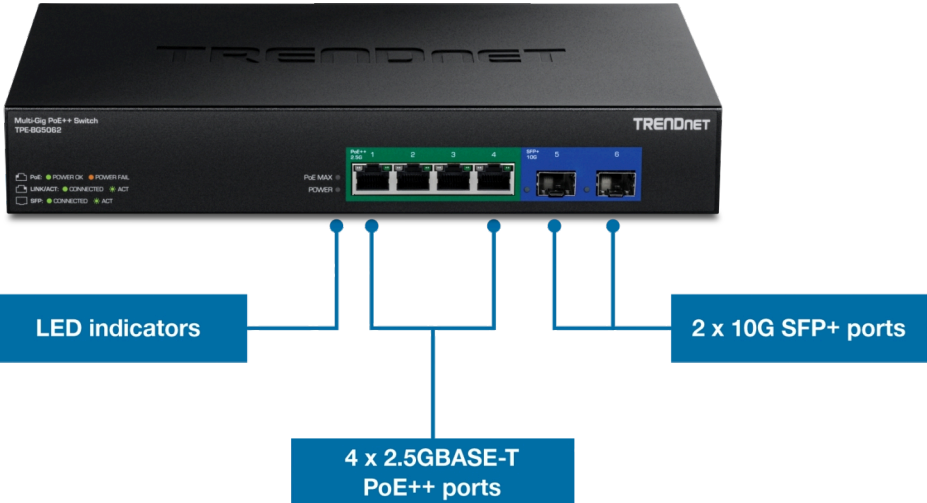60Gbps switching capacity

LED Indicators
LED indicators on the 2.5G PoE++ switch convey port status

Rack Mountable
1U rackmount design for installation flexibility

NETWORKING SOLUTION

LED indicators

4 x 2.5GBASE-T
PoE++ ports

2 x 10G SFP+ ports

240 PoE Switch

TPE-BG5062

PoE
Camera

WiFi 6
Access Point

PoE Outdoor
Extender

WiFi 6
Access
Point

TRENDnet®

SPECIFICATIONS

Standards
- IEEE 802.1p
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3ab
- IEEE 802.3ae
- IEEE 802.3af
- IEEE 802.3at
- IEEE 802.3bt
- IEEE 802.3bz

Device Interface
- 4 x 2.5GBASE-T PoE++ ports
- 2 x 10G SFP+ ports
- LED indicators

Data Transfer Rate
- Ethernet: 10Mbps (half duplex), 20Mbps (full duplex)
- Fast Ethernet: 100Mbps (half duplex), 200Mbps (full duplex)
- Gigabit: 2Gbps (full duplex)
- 2.5 Gigabit: 5Gbps (full duplex)
- Gigabit SFP: 2Gbps (full duplex)
- 10G SFP+: 20Gbps (full duplex)

Performance
- Data RAM Buffer: 1MB
- Switch Capacity: 60Gbps
- MAC Address Table: 4K entries
- Forwarding rate: 44.64Mpps (64-byte packet size)
- Jumbo Frame: 12KB

Power
- Input: 100 – 240V AC, 50/60Hz, internal power supply
- Max. consumption: 10W (no PD)

PoE
- PoE budget: 240W
- PoE++: Up to 95W per port
- Pins 1, 2, 7, 8 for power - and pins 3, 6, 4, 5 for power +
- Over current protection
- Short circuit protection

Fans
- Fanless

MTBF
- 221,000 hours

Operating Temperature
- 0° – 40° C (32° – 104° F)

Operating Humidity
- Max. 90% non-condensing

Dimensions
- 280 x 180 x 44mm (11.02x 7.09 x 1.73 in.)

Weight
- 1.684kg (3.70 lbs.)

Certifications
- CE
- FCC
- UL

Warranty
- Lifetime Warranty

Package Contents
- TPE-BG5062
- Rack mount kit
- Power cord (1.5m / 4.9 ft.)

All references to speed are for comparison purposes only. Product specifications, size, and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.

TRENDnet offers a lifetime warranty for all of its metal-enclosed network switches that have been purchased in the United States/Canada on or after 1/1/2015. Cooling fan and internal power supply carry a one-year warranty.