



CUS-100G
CUS-100GE

Features

- ✓ **High Performance Network Switching Technology**
- ✓ Comply with IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3af
- ✓ Provides RJ-45 connector for PoE In and Data out
- ✓ Power isolation and short circuit protection for power output
- ✓ Auto disconnection for over power voltage input
- ✓ **Robust Industrial Design**
- ✓ Robust aluminum case complying to IP-30 housing standard
- ✓ Supports operating temperature -10 to 70°C & extended temperature -40 to 75°C
- ✓ DIN-Rail, wall mount installation
- ✓ **Reliable Power Design**
- ✓ Supports wide range redundant power design
- ✓ Supports 4,000 VDC Ethernet ESD protection
- ✓ Provides surge (EFT) protection 3,000 VDC for power line
- ✓ Supports PoE power input design of 48 VDC
- ✓ Supports output power of 15.44 watts at 24 VDC



Overview

The Cobra CUS-100G is an Industrial PoE splitter for 10/100/1000T. It functions as a powered device (PD) and splits power from PoE to Ethernet devices. In this case, both power and data can be transmitted up to 328 feet (100m) from power source equipment (PSE). The compact, slim line PoE splitter supports output power up to 15.44 watts at 24 VDC. It offers a 48 VDC PoE power input design and is secured with power Isolation, short circuit protection for power output and auto disconnection for over power voltage input. The IP-30 housing protection, wide operating temperature of -10 to 70°C and DIN-Rail mounting makes CUS-100G suitable for an industrial environment. The E version has wider temperature range of -40 to 80°C. The CUS-100G is a plug-and-play solution for your Power over Ethernet applications.

Hardware Specifications

Interface

RJ-45 Ports: 2 10/100/1000Base-TX for PoE in and Data out

LEDs: Power, Link/Activity, Duplex/Collision

PoE Power Input: 48 VDC

Power Protection:

Power isolation and short circuit protection

Power Consumption: 17.76W @ 48VDC

Power Output: 15.4W @ 24VDC

Dimensions: IP-30 standard, 37 mm (W) x 140 mm (H) x 95 (D)

Installation: DIN-Rail, panel mount or desktop

Environmental

Operating Temp: Regular: -10 to 70°C
Extended: -40 to 80°C

Storage Temp: -40 to 85°C (-40 to 185°F)

Operating Humidity: 5% to 95% RH (non-condensing)

PoE Specifications

PoE Compliance: 100% IEEE 802.3af compliant

PoE Classification: Powered Device (PD)

PoE Protection:

Over-temperature, over-current, over/under-voltage and transient

PoE Pin Assignment:

Data and power in: 1 x RJ-45. Data pin 1, 2, 3, 6, 4, 5, 7, 8

Power pin: 4,5(V+), 7,8(V-) or 1,2(V+), 3,6(V-)

Data out: 1 x RJ-45, Data pin 1, 2, 3, 6, 4, 5, 7, 8

Power out: 1x 6 pin Terminal Block

Technical Specifications

Standard:

IEEE802.3 10BASE-T
IEEE802.3u 100BASE-TX
IEEE802.3ab 1000Base-T
IEEE802.3af Power over Ethernet

Performance

Data Transfer Rate:

14,880 pps for Ethernet port
148,800 pps for Fast Ethernet port

MAC Address: 1k

Memory Buffer: 512Kbytes

Back-plane: 1.0 Gbps

Transfer Packet Throughput:
1.19Mpps @ 64bytes

Regulatory Approvals

EMI: FCC Class A

EMS:

EN6100-4-2, EN6100-4-3, EN6100-4-4, EN6100-4-5,
EN6100-4-6, EN6100-4-8, EN6100-4-11

Safety: UL, cUL, CE/EN60950

Shock: IEC60068-2-27

Vibration: IEC60068-2-6

Free Fall: IEC60068-2-32

Environmental: WEEE, RoHS

MTBF: 440,132 hrs based on Mil-Hdbk-217F, GB

Warranty: 5 years