



Product Data Sheet

GEC-VPDBC

Single-Channel UTP Video-Power-Data Combiner-Transceivers

Overview

UTP Video-Power-Data Combiner-Transceivers are passive transceiver devices that also combine video, PTZ data and camera power over a single 4-pair UTP cable, simplifying CCTV installations in a structured wiring environment. These transceivers support cameras for up to 750 feet (228 m) with passive receivers and up to 3,500 feet (1,220 m) with active receivers. The Category 5 cable connects to these models via an RJ-45 connector on one end, and breaks out one pair for power, one pair for data and a coax cable with BNC for video. UTP transceivers are used with GE VPD combiner receivers for distances shorter than 750 feet. For longer distances use , UTC FS VPD combiners at a midway location and GE active receivers at the control room. All equipment follow industry-standard EIA/TIA 568B pin-out. Complete with built-in surge suppression to protect video equipment against damaging voltage spikes, these units feature exceptional noise immunity to ensure quality video signals.



Standard Features

- Combines video, power and data into a single RJ-45 4-pair cable for up to 750 ft. (228 m) with passive receivers and up to 3,500 feet (1220 m) with UTC FS active receivers.
- Low cost and long range connection of video, power and data
- Compatible with all major video formats including NTSC, PAL, and SECAM
- Supports “up-the-coax” type signals allowing video and bidirectional PTZ signals to be carried
- 60dB crosstalk and noise immunity (CTaNI) means unit to be used in a bundle with data, audio or other low voltage signals without interference
- Compact size for easy and flexible installation
- Built-in surge protection protects connected video equipment

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Specifications

Video

- Conditioning: 0.7 to 1.4 V p-p video accepted
- Frequency: DC to 10 MHz
- Format: PAL, SECAM, NTSC
- Twisted Pair: 100 Ohms +/- 20%, 24 AWG minimum, unshielded Category 2-7
- Coax Impedance: 75 Ohm
- Insertion Loss: 0.3 dB
- CTaNI/CMRR: 60 dB
- Surge Protection: built-in

Power

- Built-in 12VDC Converter: N/A

Connectors

- Power: One pair for power
- Video Connector: BNC
- UTP Connector: RJ45
- Data: One pair for data

Miscellaneous

- Operating Temperature: -10°C to +50°C
- Storage Temperature: -30°C to +70°C
- Relative humidity: 0 to 95%, non-condensing
- Dimensions (W x H x D): 12 x 58 x 17.2 mm
- Weight: 35 gr
- Material: ABS plastic, UL rating of 91V-O

Diagram

Ordering Information

GEC-VPDBC

Passive Video / Power / Data Combiner, w/ Surge Protection
& GL isolation, Up-the-Coax, 60dB CTaNI

