



## Product Data Sheet

# GEC-16VDPBC

## Multi-Channel UTP Video-Power-Data Combiner-Receivers

### Overview

The UTC FS Multi-Channel Combiner-Receivers are passive transceiver devices that also combine video, PTZ data and camera power over a single four-pair UTP cable to simplify CCTV installations in a structured wiring environment. They support four, eight or 16 cameras for up to 750 feet (228 m) and are designed to be installed at the control room.

The GEC-8PVPDTCHUB and GEC-16PVPDTCHUB also have built-in 8 and 16-channel fully isolated class II 28/24 VAC power supplies. Each camera power output, in addition to an auto-reset fuse, is equipped with a 2A glass fuse that is accessible from the front panel for extra protection.

At the camera end, a GE video balun/combiner provides video, power and data on separate outputs. The video connections are through BNC connectors and to the DVR or matrix switches. The data connections to the DVR are through RJ-45 connectors. There is a separate data connection for each camera. All equipment follows industry standard EIA/TIA 568B pin-outs.



### Standard Features

- Combines video, power and data into a single RJ-45 to connect to a four-pair cable for up to 750 ft. (228m).
- Integrated Passive Transceivers
- 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
- No power required for video
- Built-in surge protection protects connected video equipment
- 1U high, wall or rack mountable

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## Multi-Channel UTP Video-Power-Data Combiner-Receivers

### Specifications

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#### Video

- Channels: 16
- Conditioning: 0.7 to 1.4 V p-p video accepted
- Frequency: DC to 6 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
- Maximum Distance: 750 feet (228 m)

#### Power

- Input Voltage: 28 V Max
- Output Voltage: 28 V Max (pass-through)
- Design: Passive

#### Connectors

- Video Connector: BNC
- UTP Connector: RJ45

#### 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): 457 x 42 x 45 mm
- Dimensions (W): With front or rear mount brackets 503mm
- Weight: 795 gr
- Material: Extruded Aluminum

### Diagram

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### Ordering Information

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GEC-16VDPBC

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

