

Passive VGA Balun Extender

Product Datasheet



The Passive VGA UTP Extender is the world first completely passive VGA balun set with RGB high frequency compensation and input signal diagnostic LED indication with built-in RGB skew correction. The transmits VGA video up to 450 feet over standard unshielded twisted pair CAT5/5e/6 cable with no power required. Plus, built-in skew compensation ensures your whites are whiter and your bright are brighter. The VGA Balun Extender is ideal for education, government, house of worship, corporate, residential, and any other application requiring extended VGA video distribution. The equipment sets are compatible with CE/FCC/RoHS international standard.

Features:

- Up to 50-100m extension distance over CAT5 cable
- Stand alone RGB equalization, RGB skew compensation
- Stand alone higher common mode noise jamming rejection
- Stand alone [VGA-Good] link input output diagnostic indication
- Video sync ON/OFF selection, 1.2.3 step sync filter selection
- Working with standard PC VGA graphic card, No power needed
- Hot plug support and ESD transient rejection
- Plug and play, no firmware installation, easy tool design
- Metal case with mount tabs

Specifications:

- Max Distance:
 - VGA (640 x 480): 450 feet

- SVGA (800 x 600): 350 feet
- XGA (1024 x 768): 250 feet
- SXGA (1280 x 1024): 200 feet
- Bandwidth: DC to 60 MHz
- Power: No power required
- Impedance:
 - Input: RGB 75 ohms
 - Output: RGB 100 ohms
- Input Signals:
 - Video: 1.1 Vp-p
 - Sync: TTL standard, 300 kHz max bandwidth
- Insertion Loss: Less than 3 dB per pair over the frequency range
- Return Loss: -15 dB max from DC to 60 MHz
- Common Mode Rejection:
 - 15 kHz: -60 dB max
 - 100 kHz to 10 MHz: -40 dB max
 - 100 MHz: -20 dB max
- Grounding: Grounding screw for optional use
- Cable: Cat 5, Cat 5e, Cat 6, and Cat 7 compatible
- Send Device Connectors: One (1) female HD15 to one (1) shielded RJ45
- Receive Device Connectors: One (1) female HD15 to one (1) shielded RJ45
- Enclosure: Shielded metal housing
- Dimensions: 75X82X27mm
- Shipping Weight: 1.0 lb.
- Pin Out:
 - Blue: 7 & 8
 - Red: 1 & 2
 - Green: 4 & 5
 - Sync: 3 & 6
- Temperature:
 - Operating: 32 to 131 degrees F
 - Storage: -4 to 185 degrees F
 - Humidity: up to 95%
- Warranty: 2 years

Passive UTP CAT5 VGA Extender System Configuration Diagram

- * VGA-Link Signal Input and Output Diagnostic LEDs Indication
- * Build in RGB High Frequency Equalized Compensation
- * Stand Alone 78dB CMRR for Image Hum-Bar Rejection
- * Mountable Metal Case for Engineering Use/Application

