

Overview

The VGA Wall Balun II (500041-WP-US, 500043-WP-US) eliminates costly and bulky VGA cable, allowing a VGA source to be connected to a VGA monitor via one (1) Cat5e/6 cable. The VGA Wall Balun II allows VGA video to be transmitted up to 350ft (107m) via Cat5e/6 at 800 x 600 resolution.

The 500043-WP-US works with the 500041-WP-US or in conjunction with the 500041 or 500042. The 500041-WP-US works with the 500043-WP-US or in conjunction with the 500040 or 500043.

Typical applications include digital signage, boardroom systems, classroom video instruction and custom audio-video systems. The product features a "reset" button that may be required when used in conjunction with certain sync-sensitive displays.



Features & Benefits

- Fully supports Cat5e/6 unshielded twisted pair (UTP)*
- Cost efficient versus VGA cable
- Decora™ compatible
- Save conduit space

* Reset button on units may be required with certain sync-sensitive displays. Not compatible with 500010, 500011 and 500014. Does not support DDC handshaking.

Specifications	
Environment	VGA. VESA VP&D 1.0, VIP ver 2.0
Devices	CRT/LCD monitors, plasma, laptops, PCs, projectors.
Transmission	Transparent to the user
Bandwidth	DC to 60 MHz
Input Signals	Video: 1.1 Vp-p H & V sync: TTL standard. 300 kHz max. bandwidth
Insertion Loss	Less than 3 dB per pair over the frequency range
Common Mode Rejection Ratio (CMRR)	15 kHz -60 dB typ 100 kHz to 10 MHz -40 dB typ. 200 MHz -20 dB typ.
Return Loss	-15 dB max from DC to 60 MHz
Connectors	DB15 HD Receptacle, RJ45 Shielded
Max. Distance via Cat 5E/6 UTP/STP Cable	VGA: 640x480 pixels (15 MHz) 450 ft (137 m) SVGA: 800x600 pixels (30 MHz) 350 ft (107 m) XGA: 1024x768 pixels (60 MHz) 250 ft (76 m) SXGA: 1280x1024 pixels (100 MHz) 200 ft (61 m) WXGA: 1366x768 pixels 180 ft (55 m)
RJ45 Pin Configuration EIA 568 A or B Reverse Polarity Sensitive	Pin 1(R) Pin 2(T) Balanced – Red Pin 4(R) Pin 5(T) Balanced – Green Pin 7(R) Pin 8(T) Unbalanced – Blue (7 sig, 8 gnd) Pin 3(R) Pin 6(T) Unbalanced – H & V Sync
Compatibility	Not compatible with the VGA Balun (500010, 500011, 500014) or Active VGA Balun Kit (500035, 500036)
Reset button	May be needed when used with certain display devices
Grounding screw	Grounding screw for optional use
Cable	Cat 5E/6 or better unshielded twisted pair (UTP) The VGA Wall Balun does not support VGA handshaking and control signals. Therefore it is necessary to set the monitor attributes prior to installing the VGA baluns. In order to do this, first connect the standard VGA cable directly from the PC to the monitor and then set the monitor attributes to the required settings (i.e., resolution, color, etc.). Also, in order to achieve optimum results via twisted pair, set the contrast and brightness levels to maximum.
Impedance	Input: RGB 75 ohms Output: RGB 100 ohms
Temperature	Operating: 0° to 55°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
Enclosure	ABS fire retardant plastic, Color white, Finish glossy.
Dimensions	4.1" (104 mm) x 1.8" (45.7 mm) x 1.44" (36.6 mm). Choose 1.6" (40 mm) deep back box to allow for Cat 5E/6 wiring connection.
Weight	4.1 oz (115 g)
Compliance	FCC, CE, Decora® faceplate.
Warranty	Lifetime
Order Information	500041-WP-US – VGA Wall Balun, Monitor Side (UPC: 6-27699-92041-1) 500043-WP-US – VGA Wall Balun, PC Side (UPC: 6-27699-92043-5)

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Typical Application

