

### Overview

The VGA Wall Balun II (500041-WP-UK, 500043-WP-UK) 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-UK works with the 500041-WP-UK or in conjunction with the 500041 or 500042. The 500041-WP-UK works with the 500043-WP-UK 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
- Compatible with 86x86mm back boxes
- Compatible with 50x50mm faceplate opening
- Save conduit space

\* Reset button on units may be required with certain sync-sensitive displays. Not compatible with 500010, 500011 and 500014.

Specifications	
<b>Environment</b>	VGA. VESA VP&D 1.0, VIP ver 2.0
<b>Devices</b>	CRT/LCD monitors, plasma, laptops, PCs, projectors.
<b>Transmission</b>	Transparent to the user
<b>Bandwidth</b>	DC to 60 MHz
<b>Input Signals</b>	Video: 1.1 Vp-p H & V sync: TTL standard. 300 kHz max. bandwidth
<b>Insertion Loss</b>	Less than 3 dB per pair over the frequency range
<b>Common Mode Rejection Ratio (CMRR)</b>	15 kHz -60 dB typ. 100 kHz to 10 MHz -40 dB typ. 200 MHz -20 dB typ.
<b>Return Loss</b>	-15 dB max from DC to 60 MHz
<b>Connectors</b>	DB15 HD Receptacle, RJ45 Shielded
<b>Max. Distance via Cat 5E/6 UTP/STP Cable</b>	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)
<b>RJ45 Pin Configuration EIA 568 A or B Reverse Polarity Sensitive</b>	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
<b>Compatibility</b>	Not compatible with the VGA Balun (500010, 500011, 500014) or Active VGA Balun Kit (500035, 500036)
<b>Reset button</b>	May be needed when used with certain display devices
<b>Grounding screw</b>	Grounding screw for optional use
<b>Cable</b>	Cat 5E/6 or better unshielded twisted pair (UTP)
<b>Impedance</b>	Input: RGB 75 ohms Output: RGB 100 ohms
<b>Temperature</b>	Operating: 0° to 55°C Storage: -20° to 85°C Humidity: Up to 95% non-condensing
<b>Enclosure</b>	ABS fire retardant plastic
<b>Dimensions</b>	86 mm x 86 mm x 36 mm. Choose 40 mm deep back box to allow for Cat 5E/6 wiring connection.
<b>Weight</b>	4.1 oz (115 g)
<b>Compliance</b>	FCC, CE, RoHS, European Standard for 86 mm faceplate
<b>Warranty</b>	Lifetime
<b>Order Information</b>	500041-WP-UK – VGA Wall Balun, Monitor Side (UPC: 6-27699-91041-2) 500043-WP-UK – VGA Wall Balun, PC Side (UPC: 6-27699-91043-2)

### Typical Application

