

# VGA 1x4 Distribution Hub 500150, 500151

## Overview

The VGA 1x4 Distribution Hub allows one (1) VGA (RGBHV) source to be distributed up to up to four (4) displays via Cat5/6 cable for more cost-efficient cabling. The hub works in conjunction with the Active VGA Balun II Kit (500140) and Active VGA Balun II Receivers (500142). At least one (1) 500140 is required to support one (1) display. Up to three (3) additional 500142 may be added to support up to three (3) additional displays.

## Applications

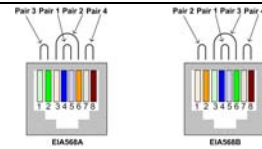
Digital signage, boardroom systems, multi-room systems, classroom training, retail systems, electronic billboards, electronic signs, video kiosks, point-of-sale displays, in-store video.



## Features

- Plug and Play - DDC1 and DDC2 Compliant
- Remote power up to 150 ft (46 m)
- Modular RJ45 on input and output
- Supports up to 1920 x 1440, 1080p
- Cascadable up to four (4) levels
- Ground loop isolation on every port
- Works in conjunction with 500140 and 500142.

Specifications	
<b>Environment</b>	VGA. VESA VP&D 1.0, VIP ver 2.0. DDC1 and DDC1.
<b>Devices</b>	PCs, laptops, CRT monitors, LCD monitors, plasma screens, DLP projectors.
<b>Transmission</b>	Transparent to the user.
<b>Bandwidth</b>	Up to 280 MHz (1920 x 1440 resolution), 1080p
<b>Impedance – Video Input (Coax)</b>	75 ohms
<b>Impedance – Video Out (UTP)</b>	100 ohms
<b>Connectors</b>	VGA Input (Cat5/6): One (1) RJ45 shielded VGA Output (Cat5/6): Four (4) RJ45 shielded
<b>DDC Compliance</b>	Transmits DDC control signals on RJ45 pins 4&5 for Plug-and-Play operation.
<b>Remote Power</b>	Transmits remote DC power on RJ45 pins 4&5
<b>Maximum Distance – Remote Power</b>	Source to Hub: 150 ft (46 m) Hub to Display: 150 ft (46 m)
<b>Maximum Distance between VGA source and Display</b> <i>Hub may be placed anywhere in between</i>	640 x 480 (VGA): 1000 ft (305m)      1600 x 1200 (UXGA): 800 ft (245m) 800 x 600 (SVGA): 1000 ft (305m)      1366 x 768 (WXGA): 850 ft (260m) 1024 x 768 (XGA): 1000 ft (305m)      1680x1050 (WSXGA): 850 ft (260m) 1280 x 1024 (SXGA): 850 ft (260m)      1920x1200 (WUXGA): 600 ft (180m)
<b>Max Distance – Component Video (YPbPr) via Cat 5 (or better) Twisted Pair</b>	480i/p: 1,000 ft (305 m) 1080i: 850 ft (260 m) 1080p: 600 ft (180 m) * VGA-to-component video cables required at both ends (not included)
<b>RJ45 Pin Configuration</b> <i>Reverse Polarity Sensitive</i> <i>Use EIA/TIA 568 A or B, straight-through wiring</i>	Red: Pin 7 (R) Pin 8 (T) Green: Pin 3 (R) Pin 6 (T) Blue: Pin 1 (R) Pin 2 (T) DDC/Remote Power: Pin 4 (R) Pin 5 (T)
<b>Gain Adjustment</b>	Gain control via DIP switches on receiver (factory default setting: all OFF)
<b>LED Indicators</b>	Power: One (1) green LED Sync: One (1) green LED per port.
<b>Cable</b>	Category 5/6 or better twisted pair cable.
<b>Ground Loop Isolation</b>	Ground loop isolation on every port. -2VDC to +3VDC between PC and display ground.
<b>Power Supply</b>	110-240V/12VDC/1.25A. Detachable North American or Continental Europe AC power cord included. 12VDC power jacks.
<b>Temperature</b>	Operating: 0° to 40° C. Storage: -10° to 70° C. Humidity: up to 95% non-condensing
<b>Enclosure</b>	Black. ABS fire retardant plastic
<b>Dimensions</b>	4.5" x 3.8" x 1.25" (11.4 cm x 9.7 cm x 3.2cm)
<b>Weight</b>	2 lb, .9 Kg
<b>Regulatory</b>	FCC/CE, RoHS
<b>Warranty</b>	Two (2) years
<b>Order Information</b>	500150 VGA Hub, 4 Ports, 110V 500151 VGA Hub, 4 Ports, 220-240V



## Typical Application

