

VE300

VGA/Audio Cat 5 Extender with Auto Compensation (1280 x 1024@300m (RQ))



The VE300 A/V Over Cat 5 Extender is exclusively designed to integrate seamlessly with the ATEN [VM0808T/VM1616T](#) Matrix Switch. The VE300 allows you to extend the distance between a source device and video display up to 150 m with a resolution of 1600 x 1200 (VE300R), or up to 300 m with a resolution of 1280x1024 (VE300RQ).

It is able to accomplish this by means of a local transmitting unit (the VE300T), connected to the remote receiving unit (either the VE300R or VE300RQ), using Cat 5e twisted pair cable. Because it allows access to the audio/video source over large distances, the VE300 is ideal for installations such as construction sites, factory floors, control and security centers, where the system equipment can reside in a safe and secure location, while the display is conveniently located in public view.

To provide optimum video quality over large distances, the VE300RQ supports RGB delay tuner functionality – allowing you to manually synchronize the RGB signals. It also provides a line synchronization function that corrects color phase and timing errors that occur over long distance transmissions, and stores the settings.

Note: VE300T, VE300R and VE300RQ are sold separately.

Features

- Uses Cat 5e cable to connect the Transmitter and Receiver
- Extends A/V source in [VM0808T](#) installations
- Supports one local and one remote displays
- [Superior RGB deskew function \(VE300RQ\)](#) – automatically synchronizes the time delay of RGB signals to compensate for distance
- Long Distance Transmission up to 300 m
- Superior video quality
 - VE300R: 1920x1200@60Hz (30 m), 1600x1200@60Hz (150 m), 1280x1024@60Hz (200 m)
 - VE300RQ: 1920x1200@60Hz (150 m), 1280x1024@60Hz (300 m)
- [Automatic and adjustable gain control](#) – adjust signal strength to compensate for distance
- Supports wide screen
- Rack-mountable
- Built-in 8KV/15KV ESD protection

Specifications

Video Input	
Interfaces	VE300T: 1 x HDB-15 Male (Blue)
Impedance	75 Ω
Max. Distance	1.8 m
Video Output	
Interfaces	1 x HDB-15 Female (Blue)
Impedance	75 Ω
Video	
Max. Bandwidth	300 MHz
Max. Resolutions / Distance	VE300R: 1920 x 1200@30m; 1280 x 1024@200m VE300RQ: 1920 x 1200@150m; 1280 x 1024@300m
Audio	
1 x Mini Stereo Jack Female (Green)	
Output	Stereo: 1 x Mini Stereo Jack Female (Green)
Connectors	
Power	1 x DC Jack (Black)
Power Consumption	VE300T: 5.3 VDC, 2.61W VE300R: 5.3 VDC, 4.00W VE300RQ: 5.3 VDC, 4.32W Note: <ul style="list-style-type: none"> ● The measurement in Watts indicates the typical power consumption of the device with no external loading. ● The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.
Environmental	
Operating Temperature	0-50°C
Storage Temperature	-20 - 60°C
Humidity	0 - 80% RH, Non-Condensing
Physical Properties	
Housing	Metal
Carton Lot	5 pcs

Diagram



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