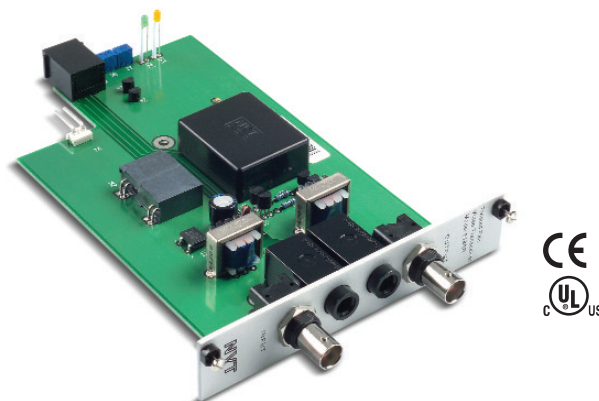




Model NV-518AR

Dual Passive Video/Audio Transceiver



Features:

- Dual real-time monochrome or colour video and audio at distances up to:
 - 225m (750ft) when used with another NV-418A or NV-418AR
 - 1km (3,000ft) when used with an active receiver such as the NV-518A or NV-518AR
- No power required
- Built-in transient protection
- Exceptional interference rejection
- Supports “up-the-coax” type control signals
- RJ45, BNC and 1/4” TRS
- Limited lifetime warranty

The NVT Model NV-518AR Dual Video/Audio Transceiver is a rack-mount passive (non-amplified) device that allows transmission of real-time monochrome or colour video and audio over Cat5 Unshielded Twisted-Pair (UTP). Baseband (composite) signals of any type are supported.

Applications include Security/Surveillance, Video Distribution, Video Conferencing, or Distance Learning.

The unparalleled interference rejection and low emissions of the Model NV-518AR allow video signals to co-exist in the same cable bundle as telephone, datacom, or low-voltage power circuits. This allows the use of a shared or existing cable plant. “Up-the-coax” type signal may be sent over the same cable pair.

The NV-518AR card slides into the NV-RM15 chassis. For stand alone applications, use the NV-518A.

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Model NV-518AR

Dual Video/Audio Transceiver

Technical Specifications

VIDEO

Attenuation	
DC to 5 MHz	0.5 dB typ
Common-mode / Differential-mode rejection	
15 KHz to 5 MHz	60 dB typ
Impedance	
Coax, RCA jack	75 ohms
UTP, RJ45 jack	100 ohms

Twisted pair interface RJ45 non-keyed jack cabled for four twisted-pairs, as shown:

AUDIO

Attenuation	
20 Hz to 20 KHz	1.5 dB typ
Impedance	600 ohms
Signal: Line level	+4 dBm max

3ft (0,9) RJ45 patch cord included

LED INDICATORS

Power LED	Amber
Active LED	Green
	When path "a" signal received

CABLE TYPE

Network Wiring	Four Unshielded Twisted Pairs
	24-16 AWG (0,5-1,31mm)
Category type	5 or better
Impedance	100 ± 20 ohms
DC loop resistance	18 ohms per 100m
	(52 ohms per 1,000ft)
Differential capacitance	62 pF/m max
	(19 pF/ft max)
Cable length	path "a" 1km (3,000ft)
	path "d" 225m (750ft)
	When connected to a passive transceiver

**Video signals traveling in opposite directions in the same cable bundle are limited to:

600m (2,000ft) over Cat5 or better cable

POWER

No Power Required

ENVIRONMENTAL

Ambient temperature	-20 to +75 °C
Humidity (non-condensing)	0 to 95%
Transient Immunity	per ANSI / IEEE 587 C62.41

MECHANICAL

Dimensions, excluding connectors	146 x 91,4 x 29,2mm
	(5.75 x 3.60 x 1.15in)
Weight	
Transceiver alone	250g (9oz)
With transformer and patch cord	450g (16oz)
Material	Gray ABS
Mounting	Two 3M Dual Lock™ adhesive strips

Specifications subject to change without notice.

CONNECTOR INTERFACES

Video	Female BNC jacks
Audio	1/4in (6mm) phone jack

Tip= "+" Ring= "-" Sleeve= no connection
Use either wiring:

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