

NEW!



Model NV-ET1804 TBus™ Four Port PoE+ Transmitter with Four PoE, PoE+, or High Power PoE Ports



Features:

- Transmit 10/100/PoE+ BaseT, over Coax 8,000ft* over RG-59U; 2,000ft over 2-Wire/UTP; 1,300ft over Shielded Twisted-Pair*
- Use with either the NV-ER1804 (4-Port), the NV-ER1808i (8-Port) or the NV-ER1816i (16-Port) Ethernet Receivers
- Powers PoE, PoE+, or High Power PoE cameras (or other PoE devices), up to 50 watts
- Easy configuration, no PC required
- Status LEDs include: Power (Blue), Link Data (Green), Link Quality (Red/Amber/Green), RJ45 PoE (Green)
- Transparently supports all networking protocols (UDP, TCP/IP, HTTP, Multicast etc.)
- Advanced 128-bit AES encrypted transmission and PoE+ power technology
- Built-in transient protection; industrial temperature range

The NVT Model NV-ET1804 TBus PoE+ Transmitter is a compact bus-architected media converter that delivers 10/100 BaseT Ethernet and PoE+ power via coax, UTP or 2-Wire or Shielded Twisted Pair cable. These transmitters are extremely simple to use, with no IP or MAC addressing required. Status LEDs indicate power and link connectivity/quality/activity for RJ45 and Tbus ports.

The NV-ET1804 TBus Ethernet Transmitter is backed by NVT's award winning customer support, Limited Lifetime Warranty and advance replacement.

*Distance and number of devices supported may lower due to limited power supply capacity and wire voltage-drop, or data-rate limiting due to the selected wire's high-frequency signal attenuation. See manual or IP Distance Calculator at nvt.com.

Network Video Technologies

4005 Bohannon Drive • Menlo Park, CA 94025 • USA
(+1) 650.462.8100 • FAX (+1) 650.326.1940
nvt.com • www.nvt.com/email



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Technical Specifications

RJ45 ETHERNET INTERFACE

Connectivity:	Four RJ45 ports, auto-crossover
Wire type:	4-pair Cat5 or better
Distance:	up to 328ft (100m)
Speed:	10/100 Base T, half/full duplex, auto-negotiation auto MDI/MDIX cross-over
Latency:	3mS
Data throughput:	200Mbps useable bandwidth per network Example: 64 megapixel cameras, all sharing one TBus network, each sending a 3.9Mbps video stream.
Power Output:	This Power Sourcing Equipment (PSE) supports Powered Devices (PDs) that are compatible with IEEE 802.3af/at, or PDs that draw up to 50 watts*. For maximum power/distance, PoE Power appears on all eight RJ45 pins, and are current protected and transient-protected.

POWER CONSUMPTION:

Connectivity:	3.0 W @ 10 to 56 VDC
Total system consumption:	= total consumption of transceivers + total consumption of PDs (IP cameras) + total power dissipated in the wire

TBUS BUILDING WIRING INTERFACE

Connectivity:	BNC or RJ45, Coax, UTP, 18/2 or STP wire One control room Receiver may support multiple * remote TBus Transmitters
Impedance:	25 to 100Ω
Distance:	see pages 4 and 5
Transmission technology:	OFDM, 128-bit AES encryption

*IMPORTANT NOTE:

Data rate, distance and number of devices supported may lower due to power supply capacity, wire voltage-drop or signal attenuation. See Wire Distance Charts on pages 4 and 5. For fault/safety, never use more than two power supplies within one TBus network.

LED STATUS INDICATORS

Power:	Blue "Power On" Flashes when joining
BNC/ 2-Wire Interface:	Green "Link" Green/Amber "Quality"
RJ45 Interface:	Green "Link" Blinks with Data

MECHANICAL / ENVIRONMENTAL

Transmitter body dimensions:	6.02 in (152.9mm) long 1.38 in (35.05mm) high 4.4 in (111.76mm) wide
Transmitter weight:	1.16lbs. (0.53kg)
Operating and storage temperature:	-40°F to 185°F (-40°C to +85°C) 20 to 85% RH non-condensing
Transient Immunity:	5x20μS 3000A, 6000V ESD 20KV, 200pF

POWER SUPPLY

Power is usually supplied from the TBus Receiver. For optional supplemental local power, an additional Class 2 power supply may be purchased. These supplies are external inline, with an IEC380-C14 power inlet and 6ft (1.8m) line-cord. Input voltage is 100 ~240VAC 50-60Hz. A molded P1J 5.5mm barrel connector provides Class 2 (SELV) regulated output with one of these three ratings:

One TBus system may not have more than two power supplies (including those within a Receiver Hub). Use only the power cord provided with the unit or equivalent UL approved type SPT-2, SVT, or SJT, 18/3 AWG 100~240 VAC, 1A 60°C Max. 15ft (4.5m) long. One end with IEC380-C13 appliance coupler and the other end with NEMA 1015P or equivalent for your country.

+ 56VDC 60W
or
+ 56VDC 90W

60W power supply body dimensions:	4.90 in (125mm) long: 1.25 in (32mm) high 2.00 in (50mm) wide
90W power supply body dimensions:	5.70 in (145mm) long 1.25 in (32mm) High 2.36 in (60mm) wide 1 lb (450g)

Power supply operating temperature: -22°F to 122°F (-30°C to +50°C)
20 to 85% RH non-condensing

Power supply storage temperature: -40°F to 185°F (-40°C to +85°C)
0 to 95% RH non-condensing

Transient Immunity: 5x20μS 3000A, 6000V
ESD 20KV, 200pF

Power cord weight: 5.5oz (156g)

REGULATORY



UL Listed to IEC/UL 60950-1 Complies with FCC part 15B limits

Specifications subject to change without notice.

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Product and Accessories

NV-ET1804: Four port transmitter only



NV-PS56-60W: 56VDC power supply, 60 watts
with IEC line cord



NV-PS56-90W: 56VDC power supply, 90 watts
with IEC line cord



NV-BNCT: BNC "T" adaptor



NV-EC4BNC: 1:4 BNC splitter adaptor



NV-PC4PR: RJ45 Patch Cord, 4-pair 3' (1m)



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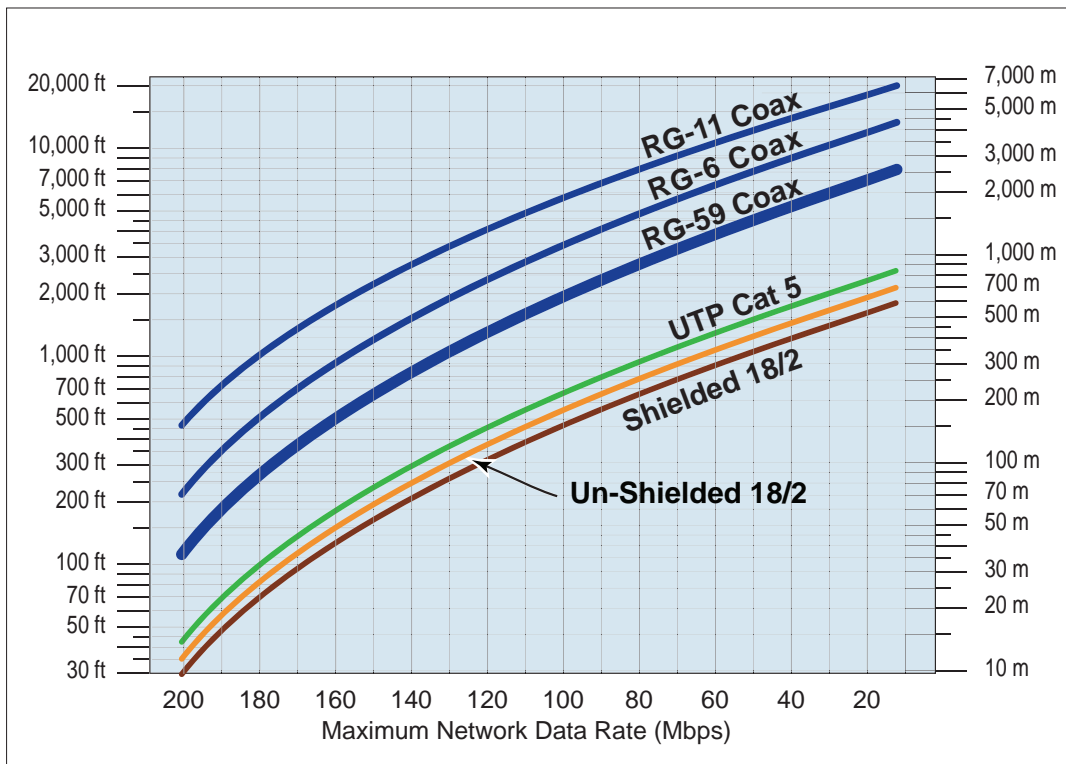
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Wire Type and Data Distance Capacity

In addition to the power distance limitation, maximum data throughput is limited by wire quality. The graph below will help you determine your data throughput.

A Distance Calculator can be found at www.nvt.com.



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