TECHNICAL SPECIFICATIONS
SECURITY SYSTEM
DIVISION 16 - ELECTRICAL
SECTION 16770 - CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM

PART 2 – PRODUCTS

2.01 GENERAL

A. All equipment and materials used shall be standard components that are regularly manufactured and utilized in the manufacturer's system.

B. All systems and components shall have been thoroughly tested and proven in actual use.

C. All systems and components shall be provided with the availability of a (U.S. and Canada) technical support number from the manufacturer. The number shall provide technical assistance at no charge for the life of the product.

2.02 NV-ER1804 TBus 4-Port PoE+ Receiver for Coax, UTP or STP

A. The TBus Receiver shall have an Ethernet port capable of communicating with 10/100/1000 BaseT Ethernet devices, per IEEE 802.3.

B. For RG-11 cable, TBus aggregate data speeds up to 150 Mbps shall be supported at distances up to 300 feet (100 m); 135 Mbps for 1,000 feet (304 m); 140 Mbps for 2,500 feet (762 m); 75 Mbps for 5,000 feet (1,500 m); and 60 Mbps for 8,000 feet (2,500 m).

C. For RG-59/U cable, TBus aggregate data speeds up to 130 Mbps shall be supported at distances up to 300 feet (100 m); 100 Mbps for 1,000 feet (304 m); 75 Mbps for 2,500 feet (762 m); 20 Mbps for 5,000 feet (1,500 m); and 10 Mbps for 8,000 feet (2,500 m).

D. For Cat5 cable, TBus aggregate data speeds up to 105 Mbps shall be supported at distances up to 300 feet (100 m); 55 Mbps for 1,000 feet (304 m); and 15 Mbps for 2,500 feet (762 m).

E. The TBus Receiver shall be used with either of following model devices: NV-ET1801, NV-ET1804.

F. The TBus Receiver shall have four TBus ports, each capable of supporting multiple TBus Transmitters at the device end.

G. The TBus Receiver shall have a Blue "Power-On" LED that flashes when "Joining".

H. The TBus Receiver shall have a green "Link" LED that is active when connected to, and communicating with one or more TBus Transmitters.

I. The TBus Receiver shall have a green LED for each TBus port that reports when a TBus Transmitter is consuming power, and is therefore connected.

J. The TBus Receiver's Ethernet interface shall be RJ45 10/100/1000 Base T, supporting auto-negotiation and auto MDI/MDIX cross-over.

K. The TBus end-to-end latency shall be ≤3mS.

L. The TBus building wiring (Link) shall be; Coax, UTP, 18/2 or STP. Wire impedance shall be 25 to 100 Ohms.

M. TBus data shall be protected using 128 bit AES encryption.

N. TBus Link transmission technology shall be IEEE 1091.

O. The TBus Receiver shall have built-in transient protection for 5x20µS 3,000A 6,000V; and ESD protection for 200pF 20KV.

P. The TBus Receiver shall provide 56VDC Class 2 (SELV) power to each TBus Transmitter when powered by the model NV-PS56-60W or NV-PS56-90W power supply.

Q. The TBus Receiver shall have a power consumption of ≤3 watts.

R. The TBus Receiver shall have an operating and storage temperature of -40°F to 185°F (-40°C to +70°C), and humidity of 20 to 85%, non-condensing.

S. The TBus Receiver shall have a weight of 1.64 lbs (0.74Kg).

T. The TBus Receiver shall have dimensions, excluding connectors, of 8.43 in (214mm) wide x 1.39 in (35mm) high x 4.4 in (112mm) deep.

U. The TBus Receiver shall be UL and cUL listed, CE and FCC compliant.

V. The TBus Receiver shall be RoHS compliant.

W. The TBus Receiver shall be provided with a limited lifetime warranty.

X. The TBus Receiver shall be the NVT NV-ER1804 4-Port PoE+ Receiver.