

PROJECT NUMBER \_\_\_\_\_

PROJECT NAME \_\_\_\_\_

DATE \_\_\_\_\_

PROJECT LOCATION \_\_\_\_\_

**TECHNICAL SPECIFICATIONS**

**SECTION 27 16 00 - COMMUNICATIONS DEVICES and ADAPTORS**

**SECTION 27 16 16 - COMMUNICATIONS ADAPTORS and TRANSCEIVERS**

**TYPE ER8500C ETHERNET EXTENDER SYSTEM**

**PART 1 GENERAL**

- 1.01 All equipment to be supplied under this specification shall be new and the current model of a standard product of an OEM of record. An OEM of record shall be defined as a company whose main occupation is the manufacture for sale of the equipment supplied and which:
  - A. Maintains a factory production line for the item submitted.
  - B. Maintains a stock of replacement parts for the item submitted.
  - C. Maintains engineering drawings, specifications, and operating manuals for the items submitted.
  - D. Has published and distributed descriptive literature and equipment specifications on the items of equipment submitted.
- 1.02 Specifications of equipment as set forth herein are salient and minimum requirements, unless otherwise stated and shall not be construed as limiting the overall quality, quantity or performance characteristics of items furnished.
- 1.03 System and components shall have been thoroughly tested and proven in actual use.
- 1.04 System and components shall be UL Listed and CE compliant.
- 1.05 All systems and components shall be provided with the availability of a toll free (U.S. and Canada) technical support number from the manufacturer. The number shall provide technical assistance for either the dealer/installer or the end user at no charge.

**PART 2 SPECIFICATIONS**

- 2.0.1 The 8 Port Rack Mounted Ethernet and PoE Coax Extender System shall be a NITEK Model ER8500C. The unit along with the ET1500C transmitter(s) shall be capable of providing PoE power and transmitting IP Ethernet network data over up to 8 standard RG59U coaxial cables for distances of up to 500 meters (1,640 feet) on a 10/100 network.
- 2.0.2 The ER8500C shall have a front panel consisting of numbered LED port indicators from "1" to "8" accompanied by additional LED indicators for bandwidth speed rates in increments of "10", "100", & "1000" along with port PoE detection, a device power, and trouble status notification alert indicators.
- 2.0.3 The 8 port Ethernet and PoE Coax Extender System shall have a back panel consisting of one row of Eight (8) coax BNC input connectors which shall provide a means to connect with IP cameras or other networked devices at 10/100 data rate speeds. The single RJ45 connector provides 1 Gigabits of network output connectivity.

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**PART 2 SPECIFICATIONS (Continued)**

- 2.0.4 The 8 Coax BNC output connectors shall provide 15.4 watts and 25.5 watts of power to operate 802.3af and or 802.3at compliant network devices. Total power output of the internal PoE Supply shall be 320 watts.
- 2.0.5 Each of the Ethernet and PoE Coax Extender System 8 Coax BNC output jacks of the PoE Supply shall automatically detect PoE compliant devices when connected and shall switch on power to the PoE device. When power is present, an integral power indicator LED on the front panel of the unit will be illuminated (see section 2.0.3).
- 2.0.6 Each of the EP8500C's Eight (8) coax BNC output connectors shall be protected by an auto-resetting overload device, which shall trip and interrupt the circuit when the rated power has been exceeded. The power shall be automatically reset when the overload is removed. Ground loop isolation shall also be present.
- 2.0.7 The Ethernet and PoE Coax Extender System shall operate over a primary line voltage of 115VAC or 230VAC at 50 or 60 Hz with a current level not to exceed 3 amps. The tempatrue rating for the ER8500C shall operate over an ambient temperature range of 0 degrees C - 52 degrees C / 32 - 125 degrees F. Connection to the primary line shall be by means of an IEC320 power connector.
- 2.0.8 The ER8500C shall have two internal fans to facilitate proper air ciruclation and heat dissapation.
- 2.0.9 The overall shipping weight of the ER8500C shall be 12 Lbs.
- 2.0.10 The ER8500C enclosure shall be CR steel, painted black and shall fit a standard 19" equipment rack and shall be one rack height. Overall size shall be 1.75" H x 19.0" W x 12.0" D.
- 2.0.11 The ER8500C shall have a limited lifetime warranty.