EtherCom

EMC01 10Base2 to 10BaseT Media Converter

Product Description:
The EMC01 is a wall-mount, compact, cost-effective means for adapting existing Ethernet cabling to configure to network requirement changes. The IEEE 802.3 compatible EMC01 converts ThinNet signals to UTP (unshielded twisted pair), and vice-versa. The EMC01 is a highly robust design and is packaged in a rugged metal enclosure to ensure durability and reliability.

Media Interface:
UTP (10BaseT): RJ45 Modular 8-Pin female connector, with MDI/MDIX feature.
BNC (10 Base2): RG-58 ThinNet

Power Supply:
110-240Vac input. 12Vdc @ 1 A
Source: DC Power Jack, External Wall-mount.

Operating Environment:
Temperature: +5° to +55° C (34°- 129° F)
Humidity: 10% to 95% (non-condensing)

EMI & Safety:
FCC Class A, CE

LED Indicators:
JAB = Jabber, *Illuminates YELLOW to indicate a jabber condition has occurred*

POL = Polarity, *Illuminates GREEN to indicate inverse polarity on the UTP side*.

UTPCOL = UTP Collision, *Illuminates YELLOW to indicate a collision has occurred on the UTP segment.*

LINK = Link *Illuminates GREEN when connectivity is achieved.*

BNC REC = BNC receive, *Illuminates GREEN to indicate a collision condition has occurred on the ThinNet segment.*

UTP REC = UTP Receive, *Illuminates GREEN to indicate data is being received from the UTP segment.*

BNC COL = BNC Collisions, *Illuminates YELLOW to indicate a collision condition has occurred on the ThinNet segment.*

PWR = Power, *Illuminates YELLOW to indicate the unit is receiving power.*

Installation:
Package should contain:

1. EMC01
2. Power Supply
3. This User Guide

Special consideration must be given to maximum segment lengths on each side of the EMC01. It is recommended that IEEE 802.3 specifications for segment distances be adhered to.
UTP (10BaseT) = 100m (300 ft.)
ThinNet (10Base2) = 185m (555 ft.)

UTP Crossover Capability:
There are some applications in which the UTP segment may or may not be connected to the repeater. To provide maximum installation flexibility, the EMC01 features a UTP crossover jumper that eliminates the need for a specially configured UTP crossover cable. This allows a repeater or non-repeater device to be attached to the UTP segment side. The jumper is located next to the RJ45 connector and is accessible without opening the case.
When the UTP segment is connected to a non-repeater device, an end-user station for example, the jumper should be in the up position. The down position is for connection to a repeater device, such as a hub or concentrator.

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