



Central Processing Unit with Ethernet Bus (CPE)

EN 50155
EN 45545
IEC 61131

MODULE FUNCTIONS

The Trainnet® CPE is a straightforward processing unit designed exclusively for Ethernet bus connectivity. It is used exclusively as a part of the Trainnet® Remote Input/Output Module (RIOM) to redirect I/O signals between the train computer (e.g. VCU) and the RIOM.

Please note that the CPE does not have a real-time clock or flash memory: it cannot be used to run train applications. It works only when it is connected to a Trainnet® train computer, typically a Gateway, VCU or TCMS.

KEY FEATURES

The Trainnet® CPE comes with a 10/100 Mbit/s Full Duplex Ethernet interface that is used to connect to the Trainnet® train computer.

The Trainnet® CPE simply reads and writes I/O signals. It is able to redirect input signals from the RIOM to the train computer. The CPE can also get information from the train computer and pass it on to the RIOM I/O modules that generate output signals.

TECHNICAL SPECIFICATIONS

Dimensions (W x H x D)

4 TE x 3 U x 160 mm

Weight

140 g

Input Power

5 V DC \pm 5 % (1 A max., 0.5 A typ.)

Temperature Range (operational)

-40 °C...+70 °C

MTBF (40 °C ambient temperature)

1 630 000 h

Ethernet Interface

1 x 10/100 Mbit M12 connector

Serial Interfaces

1 RS 485 on back for I/O bus connectivity

Boot Flash Memory

8 MB

File System Flash Memory

512 MB

Processor RAM

64 MB

VME Bus (IEC 821) Interface

A24/D16 Master or Slave