

Engineering Unit Processor Board



Applications

- Distributed data acquisition systems
- Data conversion/translation and bridging
- Real-time data processing and display

Features

- A remote IO board that is compatible with EDAU/CDAU/WDAU/nDAU-20xx chassis
- Performs data processing, including engineering unit conversion and derived functions
- Complies with IRIG 106-09 Appendix P, derived parameter syntax
- Processed data can be inserted into PCM stream via overhead card
- Processed data can be visualized as graphics widgets including needle dials, charts, text, LED, and status
- Receive one data input stream
 - PCM RS-422 data/clock inputs up to 8 Mbps
 - 10/100 Mbps Ethernet (DAR Protocol v3)
- VGA/SVGA/XGA/SXGA video display output interface
- NTSC/PAL compatible CVBS video
- Up to 60Hz of graphics refresh rate
- 4 General purpose Input (GPI)
- 4 General purpose Output (GPO)
- 3 General purpose IOs (GPIO)
- 10/100 Mbps Ethernet
- Fully configurable by TTCWare™ via serial port, Ethernet or CAIS
- Built-in web site for maintenance or diagnosis
- ARM and graphics processor running Linux operating system
- (EPMU) EUP Project Management Utility software for graphical page/widget configuration

Description

The EUP-105V is a multi-function Engineering Unit Processor (EUP) board that adds data processing and graphics display capabilities to the EDAU/CDAU/WDAU/nDAU-20xx product families. Mathematical equations that process parameter data are compliant with IRIG 106-09 Appendix P, derived parameter syntax. Processed data can be sampled by the chassis overhead and inserted into the output PCM stream. Simultaneously, the processed data can be visualized on a graphics display as graphical widgets, via the VGA/SVGA/XGA/SXGA video interface or composite NTSC/PAL CVBS interface. Multiple pages of widgets chosen from a library of widget types can be created with the displayed page controlled by GP input. Data input is either from an external PCM data and clock, or from Ethernet. GP inputs are configurable for an array of function control and GP outputs are configurable for software events. All configurations are performed using the Windows-based TTCWare and EPMU programming software.

Revision 04/20/2017

EUP-105V Datasheet

©2017 Teletronics - A Curtiss-Wright Company
Specifications subject to change without notice.

Approved for Public Release 17-S-2444



CAIS
Compatible



Management
System
AS9100C
ISO 9001:2008

Teletronics - A Curtiss-Wright Company

15 Terry Drive, Newtown, PA 18940

phone: 267.352.2020 fax: 267.352.2021 Sales@ttcdas.com

www.ttcdas.com