

## 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, derived function, etc. Configurable by TTCWare™
- 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 such as needle dials, charts, text, LED, status, etc.
- Receive one data input stream
  - PCM RS-422 clock/data inputs up to 8 Mbps or
  - 10/100 Mbps Ethernet
- Up to 64k output parameters
- High definition DVI-D/HDMI output or standard definition video output on CVBS or S-Video
- Up to 60Hz of graphics refresh rate
- 4 General purpose Input (GPI)
- 4 General purpose Output (GPO)
- User RS-232/422/485 COM port
- 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

### Description

The EUP-105A 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 are used for processing data and they comply 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 also be visualized on a graphics display, via Composite Video, S-Video or an HDMI/DVI interface. Multiple pages, selected by GPI inputs, can be available. Data is input is either from an external PCM data and clock, or from Ethernet. A GPIO is available for either event or alarm. EUP-105A includes a high performance processor module. All configurations are performed using the Windows-based TTCWare programming software.

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### EUP-105A Datasheet

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Specifications subject to change without notice.

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CAIS  
Compatible



Management  
System  
AS9100C  
ISO 9001:2008

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