

General Purpose Converter Unit

General Description

The Kimdu Technologies' General Purpose Converter Unit (GPCU) is a flight-qualified, COTS piece of equipment that contains ARINC-429 channels, RS-232/422 channels, an optional Dual-Redundant Mil-Std-1553B interface, 10/100 Ethernet, USB, and a CAN or AeroCAN interface, A/D inputs, Discrete I/O and audio multi-tone generator. It can be used to translate between the different protocols when supplied with system-specific firmware. The protocol conversions are performed by the embedded ARM processor. The ARINC-429 interface includes a number of options including: Data Rate (12.5Kbps/100Kbps) and Parity (Normal/Disabled) on a per channel basis. There are up to four serial ports which can operate a various baud rates.

Firmware Uploading Operation

The GPCU has a dedicated serial port for firmware updates. Firmware upload is easily accomplished in the field by using the supplied "Loader" software utility along with a PC with a serial port or RS-232/USB adapter. A serial HEX file can be supplied that can be uploaded to the GPCU at the customer's site.

Customization

The GPCU contains an internal mezzanine card socket that allows for the addition of custom interfaces. Contact the sales group at Kimdu Technologies for details.

GPCU



FEATURES:

- COTS
- ◆Protocol Conversion between multiple interfaces
- Ruggedized, Qualified Unit
- MIL-38999 Connectors
- Mil-Std-704 28vDC
- Mil-Std-461
- ◆Mil-Std-810

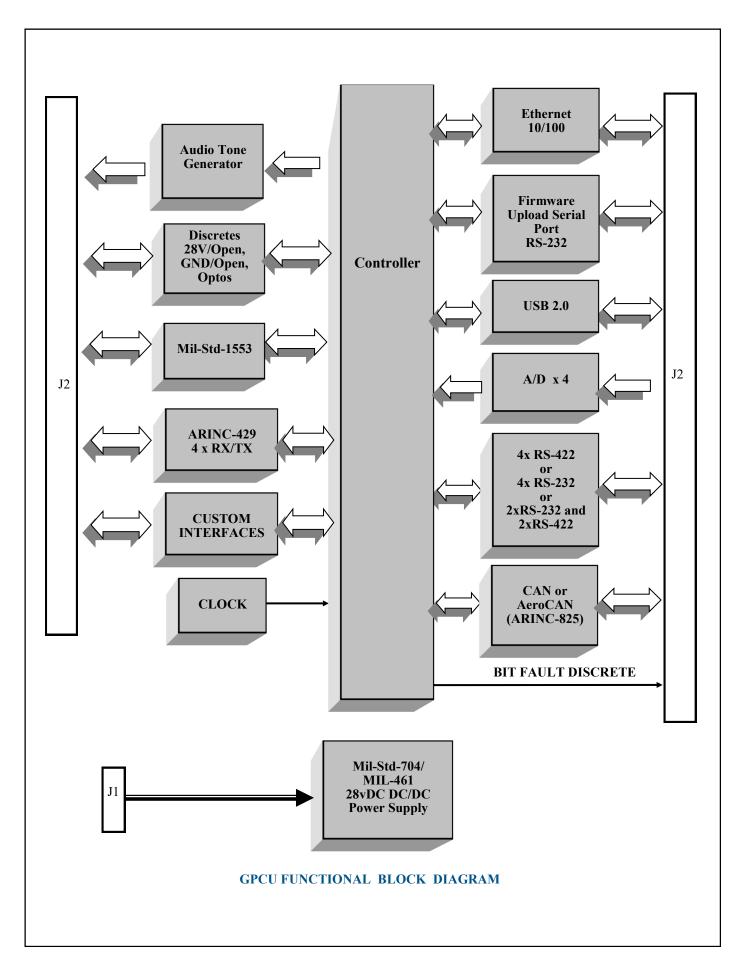


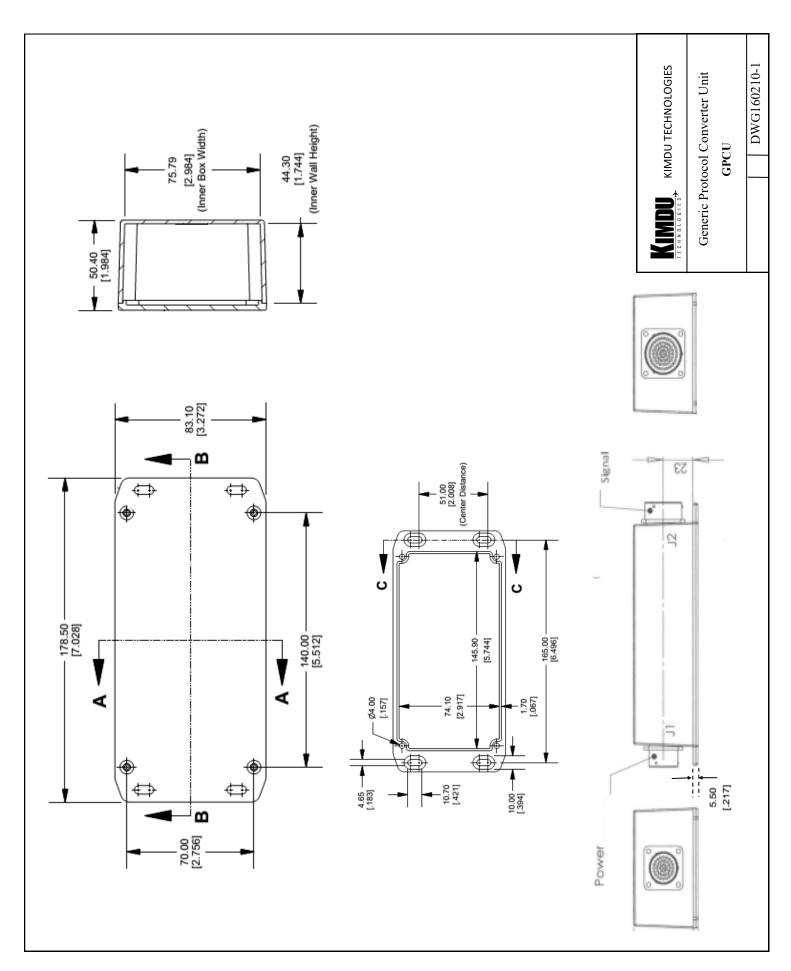


Kimdu Technologies, LLC

1662 Old Country Rd. #9 Plainview, New York 11803 Tel: 1 800 677-6174 Fax: 1 866 447-8644

E-mail: sales@kimducorp.com





Ordering Information

