

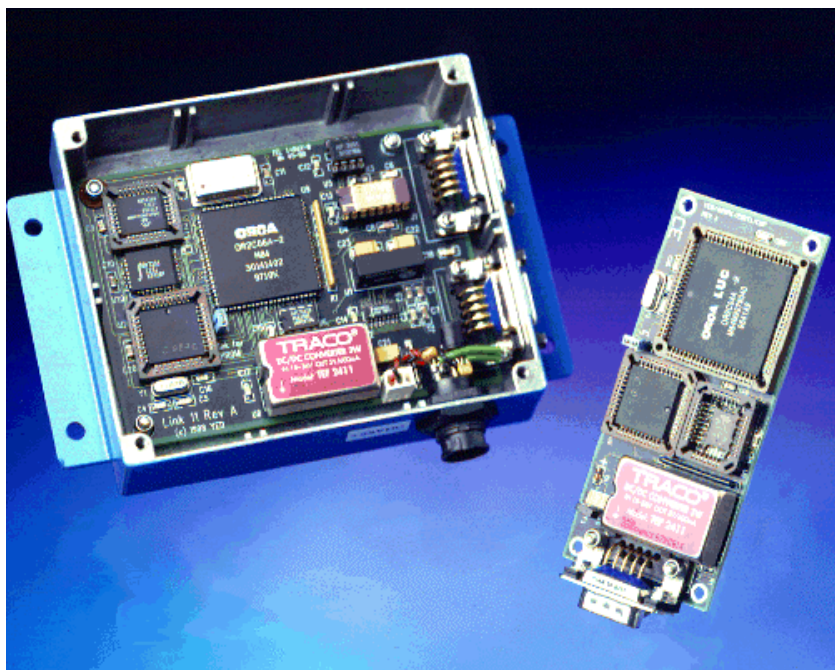
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## DATA CONVERTERS / PROTOCOL TRANSLATORS

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A range of custom data translation Converters can be supplied for performing fixed format conversion of data from one data bus standard to another. An example would be to extract flight data (Long., Lat., Cross Track, etc) from an FMS and translate this into NMEA0183 (RS422/RS232) for use by a Moving Map display unit.

The Converters are NOT intended for general-purpose translation of data such as the ARINC429 'Dongle' type adapters that are available from certain manufacturers. The customer specifies the conversion criteria at time of order and ONLY this conversion is performed. The Converter rejects any other data on the incoming data bus.



Data Converters can be supplied as either uni-directional or bi-directional in operation and are intended for autonomous operation without the need to be supported by external PC hardware or software.

Typical examples of uni-directional are MIL-STD-1553B Rx to ARINC429 Tx, ARINC429 Rx to NMEA0183 Tx., etc. Bi-

directional would be RS232 Rx to ARINC429 Tx and ARINC429 Rx to RS232 Tx.

Besides Bus to Bus translators we can also provide Converters that extract specified data words and convert these into 0-10VDC output.

All Converters can be supplied as PC based standalone PCB assemblies or as standalone PCB's enclosed in a flanged diecast box and powered from a 9-36 volts DC aircraft supply.



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## DATA CONVERTERS GENERAL SPECIFICATION

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- Autonomous operation.
- 9-36 VDC isolated operation or as specified by customer
- Low power consumption - usually 1.5W or less depending upon bus type
- ARINC bus type receivers all have opto-coupled inputs
- Operate once power has been applied without need for remote programming
- Can be supplied as PCB assembly or boxed.
- Bus standards catered for at present include:-
  - ARINC419/429/575,
  - PANAVIA Serial Data,
  - RS232, RS422,
  - NMEA0183,
  - MIL-STD-1553,
  - ADF806

If you have an application that you feel that we might be able to help you with then we would be pleased to discuss your requirements.



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