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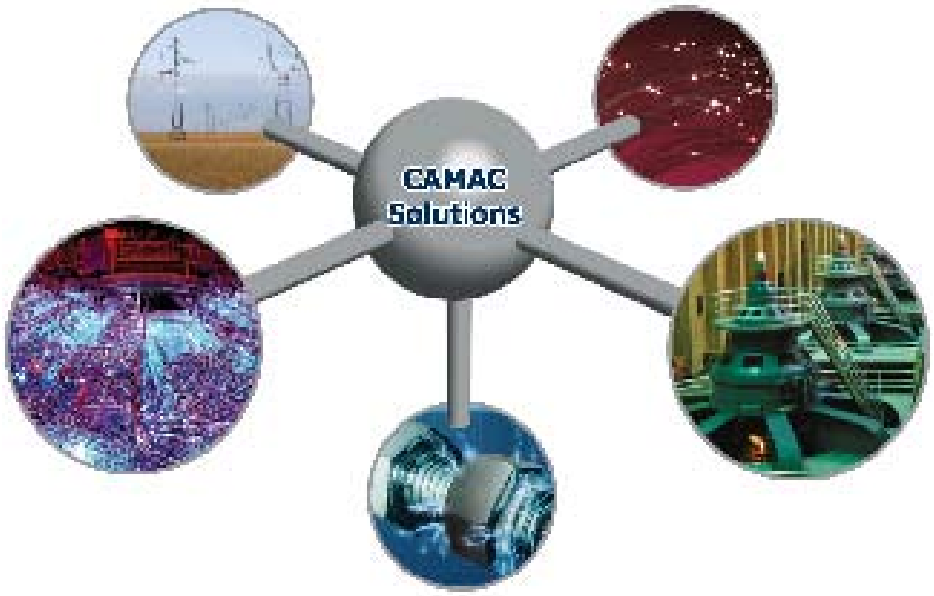
3310

2-channel, ARINC-429 Aircraft Bus Interface

CAMAC Equipment

CAMAC, Computer Automated Measurement And Control, is an IEEE-standard (583), modular, high-performance, realtime data acquisition and control system concept.

Since 1969, CAMAC has been used in many thousands of scientific, industrial, aerospace, and defense test systems around the world.



The Model 3310 is a single-width CAMAC module providing an interface for one transmitter and two receiver channels compatible with the ARINC-429 Aircraft Data Bus (Mark 33 Digital Information Transfer System).

APPLICATIONS

Avionics subsystem development and testing

Aircraft engine testing

FEATURES

- Two ARINC-429 receive channels and one transmit channel
- Selection of transmit/receive data rates
- A computer-selectable list memory for each receiver channel to read only
- Retransmission of FIFO data

GENERAL DESCRIPTION
The Model 3310 is a single-width CAMAC module providing an interface for one transmitter and two receiver channels compatible with the ARINC-429 Aircraft Data Bus (Mark 33 Digital Information Transfer System). ARINC-429 is the primary bus standard for modern civil air transports (such as Boeing 747). A channel of this system, as specified by Aeronautical Radio, Inc., covers the transmission of avionics information in a digital format. Information is sent from a designated output port over a single shielded and twisted pair of wires to all other system elements having need for that information. Bidirectional data flow on a given twisted pair is not permitted. Transmission is made "open loop" (i.e., receiver channels are not required to inform transmitter channels that information has been received).

DETAILED INFORMATION
Each transmit and receive channel is completely independent. The channel datarate can be set to 12.5 kilobits/second. The transmit channel includes a FIFO, and each receive channel includes a 256 x 32 RAM memory so that data can be efficiently written and read via the CAMAC Dataway. DMA block transfers can be used, if desired.

The transmitter output rate can be selected from one millisecond to 2.048 seconds in a binary increment (..., 128 mS, 256 mS, ...). Each ARINC message is generated by two CAMAC 16-bit Write operations. If the transmit FIFO is written at a rate slower than the one selected, a message is transmitted to the first "tic" following the availability of data. If a data Write operation is attempted when the transmit FIFO is full, the data is not written, and a Q = 0 response is given. For test purposes, the data at the "bottom" of the FIFO can be repeated at the selected rate.

For many applications, reading all messages on a channel will result in the storage of more data than necessary. The 3310 contains a list memory for each channel which selects desired data labels to be read (from the 256 possible combinations). The "list" for each channel is a 256 x 9 memory that can be written from the Dataway. Data associated with a label will be the "last received" ARINC word, even if there has not been another word associated with that label received since the last CAMAC Read operation.

For test purposes, transmit and receive channels can be "looped-back" under computer control. This allows testing of the module regardless of the external environment.

Connections to the ARINC-429 Bus are made through three 9-pin "D" type connectors mounted on the front panel of the module. The receive channels are socket connectors and the transmit channel is a pin connector.

POWER REQUIREMENTS
+6 volts — 2100 mA

WEIGHT:
.56 kg. (1 lb. 4 oz.)

ACCESSORIES
Model 5856-Axyz or Bxyz-Series Cable Assemblies

ORDERING INFORMATION

MODEL	DESCRIPTION
3310-B1A	2-channel, ARINC-429 Aircraft Bus Interface

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