

Avionics

DT650 ARINC 629 DATABUS ANALYZER



AEROFLEX
A passion for performance.

Powerful capabilities for avionics maintenance

The DT650 ARINC 629 databus analyzer is a powerful tool that can be used on the ramp or on the bench.

The DT650 can be configured with up to three independent transceiver channels. Basic receive and transmit functions are implemented along with a general record mode and a breakpoint mode. The standard RS-232C port is used for downloading real time or recorded data and for uploading new label/word definitions. The standard DAC port can be used to provide a trigger pulse or to drive recorders or instruments. The large graphical display and integrated keyboard provide an informative and intuitive user interface.

Features

- Three ARINC 629 ports
- Operates 6-8 hours on internal battery or power from external 28 VDC or 105-250 VAC
- Easy menu-driven setup
- Multi-window display of data in 8 different formats, including user defined and graphic plots
- Powerful record and fault analyzer modes
- IEEE 488, RS-232C and DAC interface ports

GENERAL SPECIFICATIONS

RECEIVER OPERATION

Ports

- 1 Standard, 2nd and 3rd optional

Bus Frequency

- 2 MHz

Input Electrical Characteristics

- Doublet as specified for SIM input in the Boeing D227W201 Universal Data Sheet

Word Update

- 1 ms to 10 s, update rate displayed as instantaneous, min or max value

Display Format

- Pre-stored engineering units, full or data field hex and binary, user, and ASCII

Word Strings Available

- 4096

Bus Activity Monitor

- Monitors loss of individual words; Sensitivity selectable

Words Selectable

- 255 Words per word string, 32 word strings

Real-time Download/ Conversion

- RS-232C or 12-bit DAC port

TRANSMITTER OPERATION

Ports

1 Standard, 2nd and 3rd optional

Bus Frequency

2 MHz

Output Electrical Characteristics

Doublet as specified for SIM output in the Boeing D227W201 Universal Data Sheet

Transmit Interval

0.5 to 64 ms (selectable)

Synchronization Gap

16, 32, 64, and 127 μ s (selectable)

Terminal Gap

1 to 128 μ s (selectable)

Synchronization

C Mode communication provisions with external terminals

Display Format

Pre-stored engineering units, full or data field hex and binary, user defined, and ASCII

Maximum Words per Word String

256

Maximum Word Strings

31 x 31

Dynamic Transmit

Repeat pattern of ramps and flat segments; Levels programmable between + full scale and segment times or 0 to 999,999 sec.

BREAKPOINT OPERATION

Label Sequence

A, B, A or B, A then B

Data Conditions

EQ, NEQ, OR, GT, LT, /GT/, /LT/

Event Count

1 to 99 before break

History

Up to 40,960 words in a programmable window about the breakpoint; optional time stamp

Trigger Pulse

5V, 20 μ s

RECORD OPERATION

Channels

Up to 32 data words from any combination of receive ports and received word strings

Sample Interval

1 ms to 10 s (selectable)

Record Capacity

120 Kbytes

Playback Options

Graphics plot, data lists, DAC download, and RS-232C download

PHYSICAL CHARACTERISTICS

Weight

24 lbs. (11 kg)

Dimensions

14.25"W x 5.7"H x 12" D

(36cm x 14.5cm x 30.5cm)

Power Requirements

18-36 VDC, 20 Watts

105-250 VAC, 50-400 Hz, 20 Watts

Or, rechargeable internal NiCad Battery providing typically 6-8 hours of operation

ORDERING INFORMATION

DT650-110 ARINC 629 Data Bus Reader (110V)

DT650-220 ARINC 629 Data Bus Reader (220V)

Optional Accessories

ACPMGR-600 Software Support for D600/650/650H

ACRS232CBL DT400/400H/600/650 RS-232 cable

Extended Warranty

WDTRC/203C Extended standard warranty 36 months with scheduled calibration

WDTRC/205C Extended standard warranty 60 months with scheduled calibration

For the very latest specifications visit www.aeroflex.com

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Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.