Western Avionics Ltd.

Configurable Databus Solutions

MODEL 1U11064G01

Expandable Data Recorder

- *Self-Contained 19" 4U System*
- *Rear Inputs for LDB-1-4 and IRIG*
- *8" TFT SVGA Display, (800x600)*
- *Lockable Front Door*
- *Protected drives, power, and reset*
- *VGA, USB, Serial & LAN on Front*
- *Selectable Shuttle Bus Decoding*
- *Automatic Bus Error Detection*
- *Fast Search & Review of Data*
- *Unlimited Storage*
- *Front Panel Connections*
- *IRIG B Time Synchronization*

CONTACT:
Sales@Western-av.com

The 1U11064G01Data Recorder is a Pentium M based 4U height workstation with 8" TFT high brightness LCD display. It features an integral 88-key keyboard drawer and touchpad for high reliability and easy operation. Its heavy-duty construction is designed for continuous operating environments. It is equipped with removable rack-mount flanges and handles for rack or bench-top use. It has a wide range of instrumentation and monitoring applications where an integrated solution is preferred.

Western Avionics Ltd.,Units 13/14 Shannon Free Zone, Shannon, Co.Clare, IRELAND
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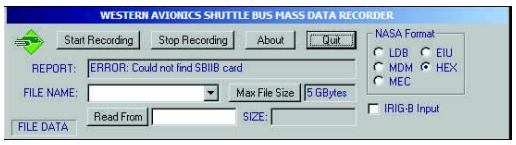
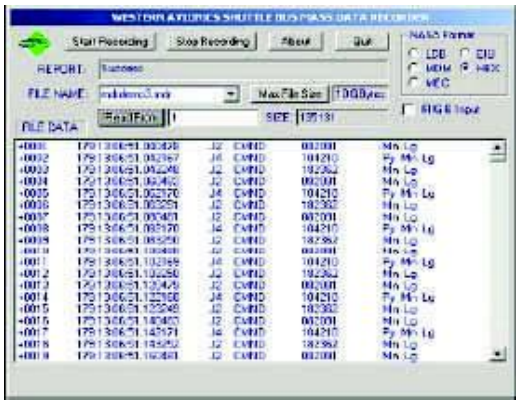
MODEL 1U11064G01 SPECIFICATIONS

The Shuttle Bus Mass Data Recorder (MDR) is a self contained recording system capable of continuously monitoring NASA Shuttle Bus activity and storing the data for archival analysis and review. Simple controls facilitate quick starting and stopping of the recorder process, selection of archival file size and indication that bus data is being recorded is provided. The MDR may be connected directly to Shuttle Bus signal ports. There is no requirement for special signal conditioning. The MDR is designed to decode the various NASA Shuttle Bus signal formats internally. All bus messages are sequentially numbered and time stamped and the MDR can accept a synchronizing IRIG-B time signal.
The Shuttle Bus MDR saves all bus traffic to internal RAM and then dynamically offloads the data to a large capacity non-volatile storage media. The MDR also performs internal analysis and identifies bus messages that contain parity, Manchester or other bus errors. Stored data files may be reviewed locally on the MDR and archived or copied.
Data files can be distributed via standard network or email methods. The electronic format of the files allows for fast retrieval, search and sort capabilities not available on magnetic tape systems. Review of stored data files may be performed locally on the MDR, or an included utility application facilitates review and analysis of the recorded data files on Windows based PC's. Critical information such as Bus identification, Message types and data are displayed. All bus errors, associated with each message are clearly indicated. The user may select which of the various Shuttle bus formats are to be used for displaying the data.

Bus Recording Mode
Full capture and storage of all shuttle bus activity.



Signal Inputs
Primary Tx Bus
Secondary TX Bus
Primary RX Bus
Secondary Rx Bus



Time Synchronization Input
IRIG-B

Message Time Stamp
Days:Hours:Minutes:Seconds:Tenths
1 microsecond resolution.

File Storage Capacity
5 to 400 Gbytes in 5 GB increments

Error Detection
Full Shuttle bus message error detection including Manchester, Parity, Long Word, Short Word,

Storage
2MB Recirculating RAM Storage for Shuttle Activity
up to 500GB Hard Disk for files

Data Analysis Mode
Shuttle Bus Decode Formats: LDB-MEC-MDM-EIU-HEX-BIN
Bus Identification: Active bus is identified with data.

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Specifications subject to change without notice

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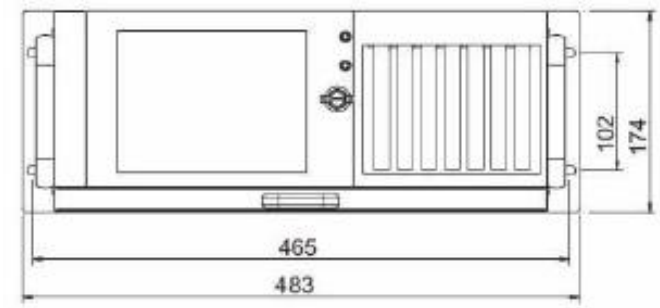

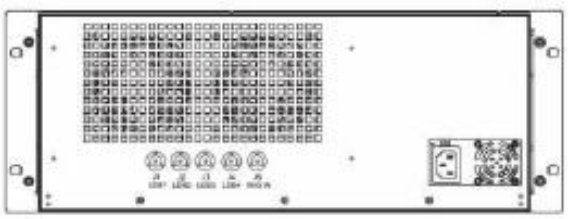

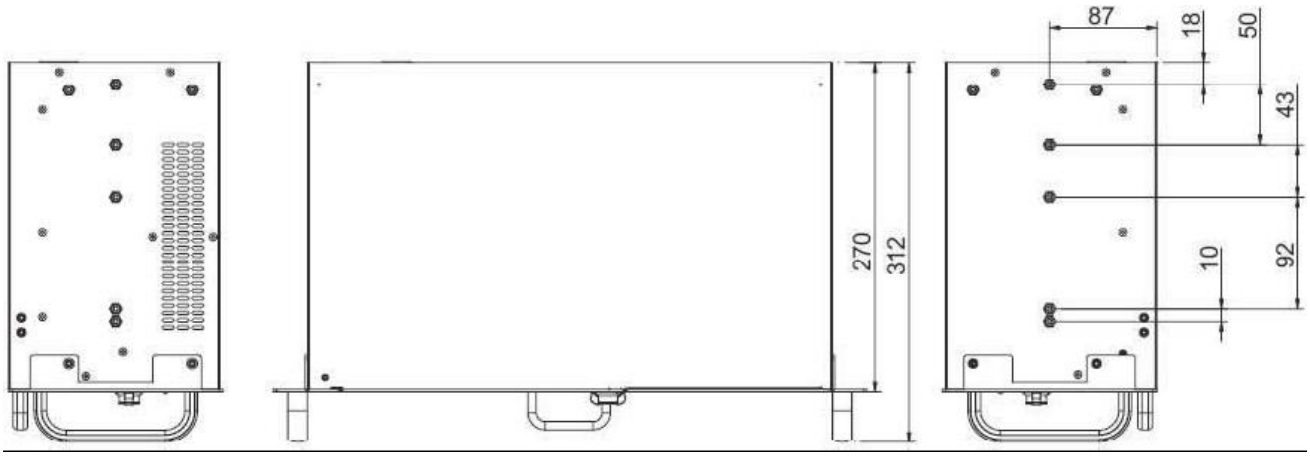

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