

32-Channel Bi-Level Multiplexer Module with Programmable Threshold



Features

- 32 Bi-Level input channels per module
- >500 K Ω input impedance, power-on or power-off
- Compatible with stack operation of up to 20 Megabits per second
- Programmable input threshold
 - +10.24V to -10.24V on an 8-bit basis
 - Programmable in 7.5mV steps
- Programmable open input behavior
 - "0" (Pull-down) or "1" (Pull-up) on an 8-bit basis
- Time tag capability
- Overvoltage protection
 - ± 35 VDC Absolute any channel
- Bi-level data is encoded as two (2) 16-bit data words
- Windows application software included

Applications

- Flight Test Instrumentation
- Wideband Testing, Structural Analysis, ...
- Strain Gages, Load Cells, Pressure Transducers
- Research Measurements and Experiments

Description

The MBL-132-1 is a 32-channel bi-level (on/off) multiplexer module for use in TTC's MEDAU/MCDAU/MWDAU-2000 series products. The module is compatible with stack operation of up to 20 Megabits/second. It can accept single-ended voltages from discrete devices such as switches or relays, or logic levels from digital devices, and encode these levels into data words for transmission in the system PCM output format. All inputs must be referenced to AGND on the module. A DC threshold voltage level is programmable in TTCWare on an 8-bit basis between -10.24 volts and +10.24 volts. This threshold level determines the transition point from logic 0 to logic 1. Open-input behavior (pull-up or pull-down) is also programmable in TTCWare on an 8-bit basis. Two groups of 16 input channels each are formatted as words and sent to data latches whose operation is also programmable through TTCWare. The latch data is then made available for transmission in the PCM output format.

Revision 05/12/2015

MBLS-132-1 Datasheet

©2015 Teletronics - A Curtiss-Wright Company
Specifications subject to change without notice.

Approved for Public Release 16-S-0318



CAIS
Compatible



Management
System
AS9100C
ISO 9001:2008

Teletronics - A Curtiss-Wright Company

15 Terry Drive, Newtown, PA 18940

phone: 267.352.2020 fax: 267.352.2021 Sales@ttcdas.com

www.ttcdas.com