



DATA SHEET



EX1200-3824

8 (1X24) SOLID STATE, 100V/100MA
MULTIPLEXER

OVERVIEW

8 Banks of 1x24 One-Wire Multiplexers

Solid State Relays for Maximum Switching Speed
and Virtually Infinite Life

Capable of Switching High Voltage Signals Up to
100 V Peak

User Configurable 10:1 Attenuator Option Enables
Direct Connections to 10 V Digitizers

Up to 48 1x24 One-Wire Channels in 1U Full Rack
Mainframe

Front Panel Mountable Break-Out-Box for Easy Wiring

APPLICATIONS

Automotive ECU test

Avionics Test

Health Monitoring



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Specifications contained within this document are subject to change without notice

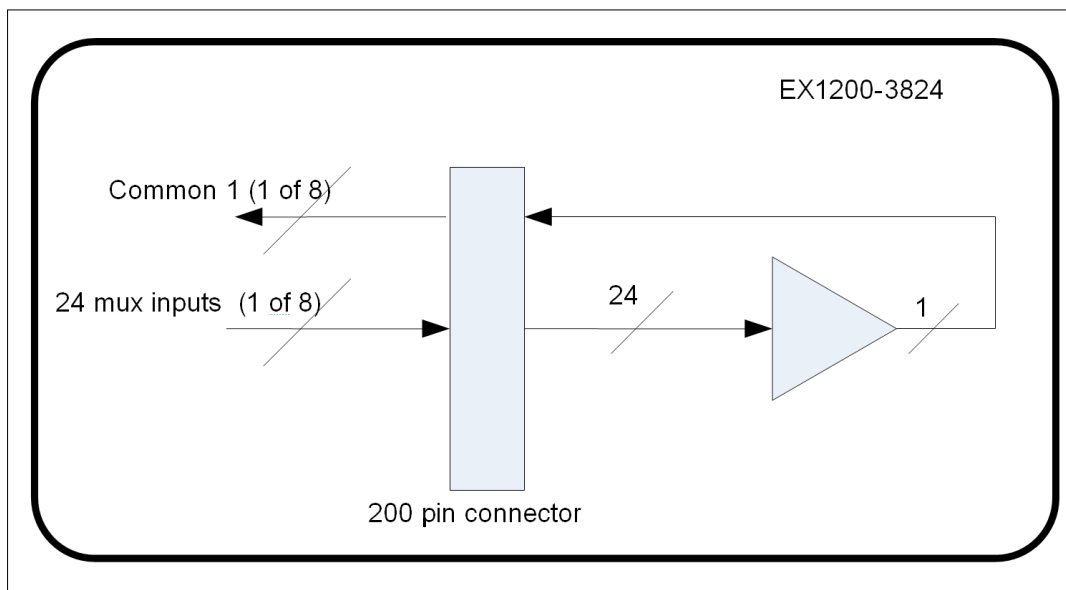
RELIABLE DATA FIRST TIME EVERY TIME

PRODUCT OVERVIEW

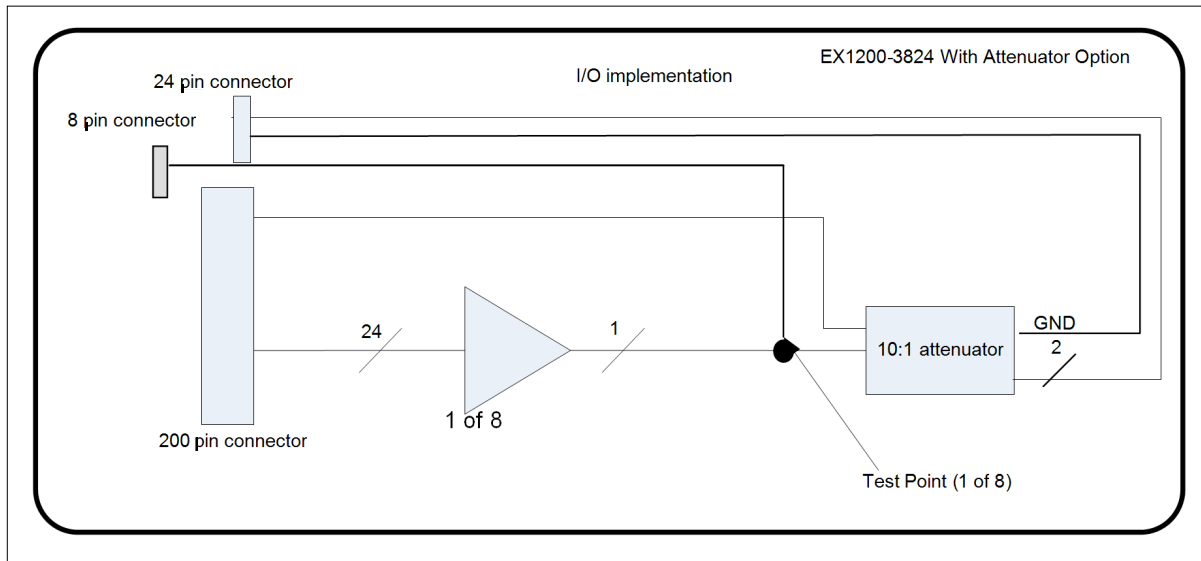
The EX1200-3824 is a high speed multiplexer designed to provide flexible switching multiplexing architecture with 8 banks of 1 x 24 one-wire multiplexers. Up to 48 1 x 24 one-wire channels can be accommodated in a 1U EX1200 full rack mainframe for maximum density, or mixed and matched with other EX1200 plug-ins for flexibility. The solid-state design delivers extremely fast switching speed and near infinite life.

The EX1200-3824 may be used in applications in which its inputs are connected to DUT capable of producing signals that approach 100 V, with its commons being connected to high-speed measurement devices. When measurement devices are limited to 10 V input ranges, the EX1200-3824 offers the option of an on-board 10:1 attenuator to eliminate the need for external circuitry while ensuring maximum signal integrity.

The EX1200-3824 can be controlled programmatically using IviSwch-compliant calls. Both path level programming and individual relay control are available to simplify integration into test systems. On-board configuration relays are available to connect the individual banks together, providing the system designer with the flexibility to create test programs utilizing discrete 1 x 24s or configurations as large as 1 x 192 without external wiring.



EX1200-3824 Standard Board IO Implementation



EX1200-3824 with Attenuator Option Board IO Implementation

EX1200-3824 Specifications

NUMBER OF CHANNELS	8 (1X24) one-wire multiplexers
RELAY TYPE	Solid state
MAXIMUM SWITCHING VOLTAGE	70V DC 100V AC
MAXIMUM SWITCHING CURRENT	100mA
SWITCHING TIME	<500 uS
PATH RESISTANCE	<6 Ohms
CROSS TALK (TYPICAL)	
100KHZ	<-65 dB
1MHZ	<-62 dB
10MHZ	<-33 dB
INSERTION LOSS (-3DB)	10 MHz

EX1200-3824 with Attenuator Option Specifications

NUMBER OF CHANNELS	8 (1x24) one-wire multiplexers
RELAY TYPE	Solid state
MAXIMUM SWITCHING VOLTAGE	70 V DC 100 V AC
MAXIMUM SWITCHING CURRENT	100 mA
SWITCHING TIME	<500 uS
FREQUENCY RESPONSE -CUTOFF	
10KHZ	-3dB
400KHZ	-3dB
FREQUENCY RESPONSE -FLATNESS	
10KHZ	0.5dB
100KHZ	0.5dB
CMRR -400KHZ	-40dB
DC OFFSET	0.5mV