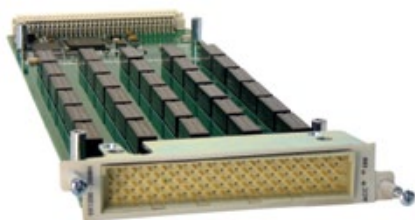


DATA SHEET



EX1200-2008H

30-CHANNEL 3 (1 X 10)

HIGH-VOLTAGE MULTIPLEXER

FEATURES

High-density, high-voltage multiplexer/scanner
(1x180 in 1U size)

Ideal for hipot, cable breakdown, source-
measure-unit, and power supply switching

Extensive signal shielding employed on PCBs
for excellent signal fidelity

Break-before-make (BBM) and make-before-break
(MBB) accomplished in hardware, considerably
improving scanning time

Fail-safe interrupts can detect fault condition and
automatically open up relays to a default state



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RELIABLE DATA FIRST TIME EVERY TIME

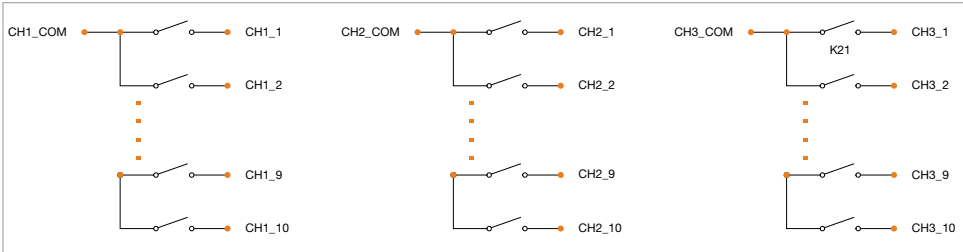
OVERVIEW

The EX1200-2008H is a high-voltage multiplexer module designed for electrical safety testing, insulation testing kind of applications whose voltage levels exceed standard 300 V level. EX1200-2008H is designed to switch voltages up to 1000 V, at power levels up to 25 VA. Each card contains three banks of 10x1 multiplexers. The EX1200-2008H can be mixed and matched with other EX1200 series plug-in modules in a single mainframe to construct a flexible mixed-signal switching subsystem.

The EX1200-2008H has been designed for applications requiring high-voltage signal switching. When switching high voltages, the need for signal shielding becomes critical. This module has been designed to include large shield planes to reduce crosstalk and voltage spikes to adjacent channels.

For ATE applications, such as switching high-voltage source measure units or power supplies, a fail-safe interrupt line (TTL-logic) is provided on the front panel. A change in state on this input pin can be used to create a fault condition and force all relays to their open state. This approach provides an additional layer of safety in the event that an adapter is removed by a technician while voltage is still present at the interface panel.

BLOCK DIAGRAM



General Specifications

RELAY TYPE	Reed
CONFIGURATION	3 banks of 1 x 10 (single wire) multiplexer
MAXIMUM SWITCHING VOLTAGE	1000 V DC / 700 V AC
MAXIMUM SWITCHING CURRENT	1 A
MAXIMUM CARRYING CURRENT	2 A
MAXIMUM SWITCHING POWER	25 W DC / 25 VA
PATH RESISTANCE	< 1 Ω (resistive load)
INSULATION RESISTANCE	> 1 X 10 ⁷ Ω
BANDWIDTH (-3 dB)	60 MHz (typical)
RATED SWITCH OPERATIONS	
Mechanical	100 x 10 ⁶
Electrical	1 x 10 ⁶ at full load
SWITCHING TIME	< 1 ms
CONNECTOR TYPE	160-pin DIN with interleaved connections

Ordering Information

EX1200-2008H	Three 1x10 single wire high-voltage multiplexer, 1000 V/25 VA
ACCESSORIES AND TOOLS	
70-0363-504	Strain relief bracket (includes connector, recommended accessory)
70-0363-503	Strain relief bracket kit (without connector)
52-0109-000	Crimp pin (includes 100 crimp pins)
27-0088-160	Mating connector (one per board)
46-0010-000	Crimp tool (DIN)
46-0011-000	Extraction tool (DIN)
70-0363-507	160-pin to 80-pin, unterminated cable assembly, 3 ft