

EX2116



TriggerBus Cables

## Features

Ideal for Synchronization of Multiple LXI™ TriggerBus Devices

Deterministic Distribution of Trigger and Clock Signals

Synchronize VXI-based Instrumentation

Supports Star Configuration

Internal Signal Buffering and Termination

Expansion up to 320 Devices

Minimize Control Signal Skew and Delay

## EX2108/16 - Star Trigger Bus Expander

The EX2108/16 is a high-density trigger distribution interface designed specifically for the LXI™ TriggerBus subsystem. The LXI™ TriggerBus provides a deterministic hardware trigger and clock distribution mechanism to easily synchronize multiple LXI™ devices.

### Functionality

The EX2108 and EX2116 provide 8- and 16-port trigger-bus expansion, respectively, for use with TriggerBus compliant devices. The EX2108/16 allows multiple trigger-bus chains to expand from a single master, providing the capability to create larger channel count systems, while still maintaining measurement synchronization. The EX2108/16 trigger expansion provides buffering and termination, making each port an endpoint on separate trigger chains. Internal termination eliminates the need for external termination blocks simplifying setup and configuration time. Each chain can support up to 20 devices with the EX2108 expanding the master chain to include seven more chains of up to 20 devices each, supporting up to 160. The EX2116 provides the addition of fifteen such chains, allowing for the creation of a 320 device system.

### Specifications

<b>Number of Ports</b>	
EX2108	8 ports
EX2116	16 ports
<b>Trigger Channel Bandwidth</b>	100 MHz
<b>Trigger Lines</b>	4 Lines per Port
<b>Devices per Chain</b>	20 Maximum
<b>Maximum Chain Length</b>	20 Meters
<b>Operating Temperature</b>	0° C to 50° C
<b>Power Input</b>	(90 – 264) V ac, (50/60) Hz, 25 VA maximum
<b>Dimensions</b>	1.75" H x 17.5" W x 14.4" D

### Ordering Information

<b>LXI Trigger Bus Expanders</b>	
EX2108 8-channel	70-0319-000
EX2116 16-channel	70-0320-000
<b>LXI Trigger Bus Terminations</b>	
Trigger Bus Termination Kit	70-0322-000
<b>LXI Trigger Bus Cables</b>	
0.3 Meter	52-0515-003
1.5 Meter	52-0515-015
3.0 Meter	52-0515-030
0.0 Meter	52-0515-100