



## DATA SHEET



# EMX-4008/16

HIGH-PERFORMANCE BREAKOUT BOXES (BOBS)

## FEATURES

Designed to work with EMX-4250/EMX-4251

8 and 16 channel variants available

LED Channel Health Indicator

BNC Connections for signals

External Trigger Connector

External Calibration Input Connector

Rack mountable



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Specifications contained within this document are subject to change without notice

RELIABLE DATA FIRST TIME EVERY TIME

## OVERVIEW

The EMX-4008 and EMX-4016 provide an easy and quick option for connecting transducers into the EMX-425x cards. They provide BNC connections which offer a robust connection for most signal types. In addition, these breakout boxes provide both an external trigger connector and an external calibration input connector to facilitate calibration of the EMX-425x cards. These breakout boxes support IEPE as well as voltage measurements and are designed to leverage the IEPE current from the EMX-425x. Both breakout boxes are rack mountable.

### LED Channel Health Indicator

Both the EMX-4008 and EMX-4016 have LED indicators per channel to indicate potential problems with IEPE transducers. RED indicates open or short circuit, while GREEN indicates IEPE current on. This way, users can quickly determine any problems in their setup.

### IEPE Signal Conditioning

Each BNC connector in the Breakout-Box is connected to an independent, floating current source in the EMX-4250/EMX-4251 that provides 4.5 mA or 9 mA programmable excitation current, to power integrated Integrated-Electronics Circuit Piezo-Electric (IEPE) transducers.



## Technical Specifications

NUMBER OF CHANNELS	
EMX-4008	8
EMX-4016	16
CABLE LENGTH OPTIONS	1m, 2m
CONNECTORS	BNC
IEPE INPUTS	
IEPE COMPLIANCE VOLTAGE	> 21V
IEPE CURRENT	4.5 mA or 10 mA max

## Ordering Information

MODEL	PART NUMBER	
<a href="#">EMX-4008</a>	70-0409-010R	8-Channel Break out box for EMX-4250/4251
<a href="#">EMX-4016</a>	70-0409-015R	16-Channel Break out box for EMX-4250/4251
	53-0515-500R	0.5m LXI Trigger Bus Cable (compatible with EMX BOBs)
	53-0515-010R	1m LXI Trigger Bus Cable (compatible with EMX BOBs)
	53-0515-020R	2m LXI Trigger Bus Cable (compatible with EMX BOBs)
	53-0515-200R	20m LXI Trigger Bus Cable (compatible with EMX BOBs)
	53-0515-030R	3m LXI Trigger Bus Cable (compatible with EMX BOBs)
<b>RELATED PRODUCT</b>		
<a href="#">EMX-4250</a>	70-0409-004R	16-Channel, 204.8 kSa/s, "Smart" DSA Digitizer
<a href="#">EMX-4251</a>	70-0409-012R	8-Channel, 204.8 kSa/s, "Smart" DSA Digitizer