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VTI Instruments

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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www.vtiinstruments.com

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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.



EMX 4008

EMX 4016

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

EMX-4008	8-Channel Break out box for EMX-4250/4251
EMX-4016	16-Channel Break out box for EMX-4250/4251
52-0515-010	1m LXI Trigger Bus Cable (compatible with EMX BOBs)
52-0515-020	2m LXI Trigger Bus Cable (compatible with EMX BOBs)
RELATED PRODUCT	
EMX-4250	16-Channel, 204.8 kSa/s, "Smart" DSA Digitizer
EMX-4251	8-Channel, 204.8 kSa/s, "Smart" DSA Digitizer

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