



DE2110

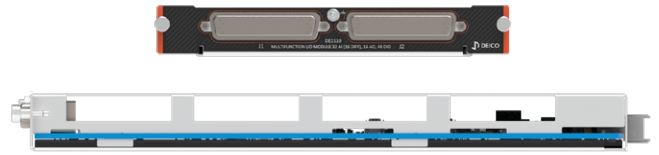
Multifunction I/O Module

32 AI (16 DIFF), 16 AO, 48 DIO

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- **High-performance analog inputs**
 - 32 single-ended or 16 fully differential analog inputs
 - 1 MS/s simultaneous sampling with 18-bit resolution
 - Software-selectable input ranges (up to ± 20 V)
- **Precision analog outputs**
 - 16 independent channels with 16-bit resolution
 - Fast settling time ($< 15 \mu\text{s}$) for waveform generation
 - High-drive capability (up to ± 55 mA) to control a wide range of devices
 - Independently programmable output ranges (up to ± 15 V)
- **Flexible & high-speed digital I/O**
 - 48 bidirectional digital I/O bits (grouped as 6 x 8-bit channels)
 - High-speed data rates up to 420 Mb/s
 - Programmable voltage thresholds (1.1 V to 5.25 V) for direct interfacing with any logic family
 - Per-channel direction control for maximum flexibility

