Mixed Signal

HILEVEL TECHNOLOGY, INC.

Mixed Signal Resource for HiLevel Systems

A User-configurable Modular Solution
To Support Your Mixed Signal Needs

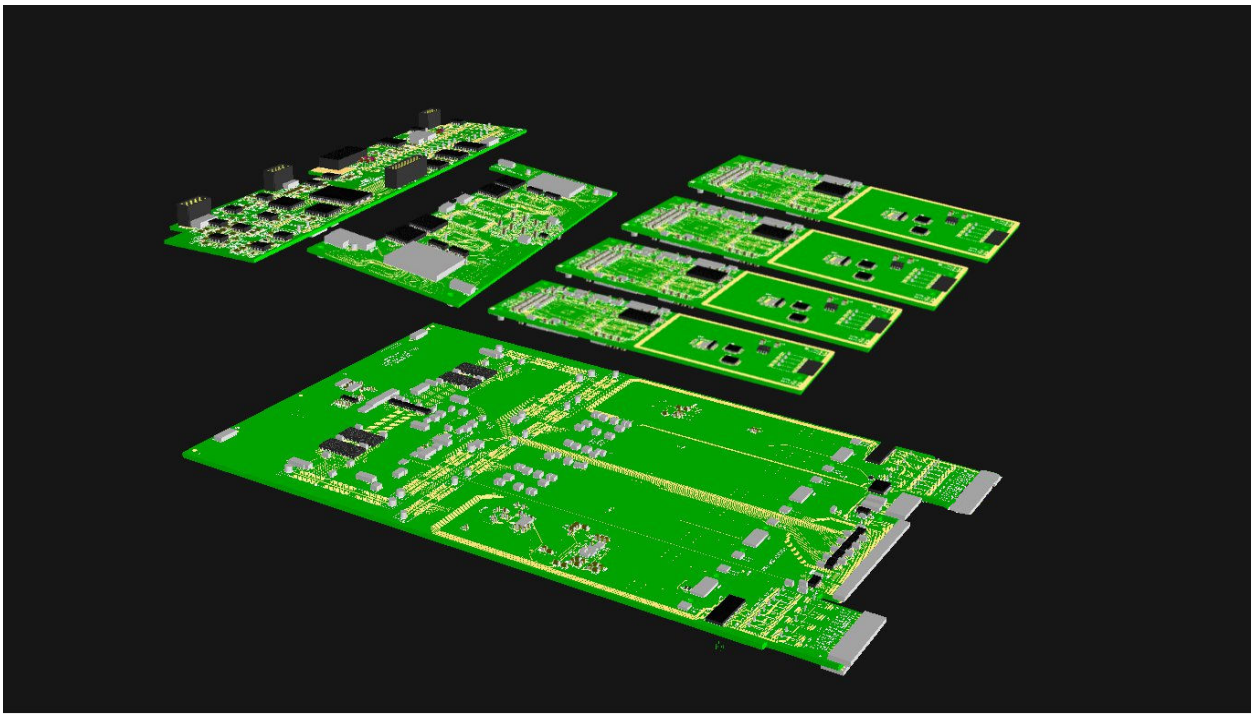
HILEVEL TECHNOLOGY, INC.

MX2

Analog Resources

Enhance the flexibility of your ***HILEVEL*** system by adding analog resources to your powerful digital logic tester. Digitizers, AWGs, and high-voltage pins can be easily added and applied to your device without cables.

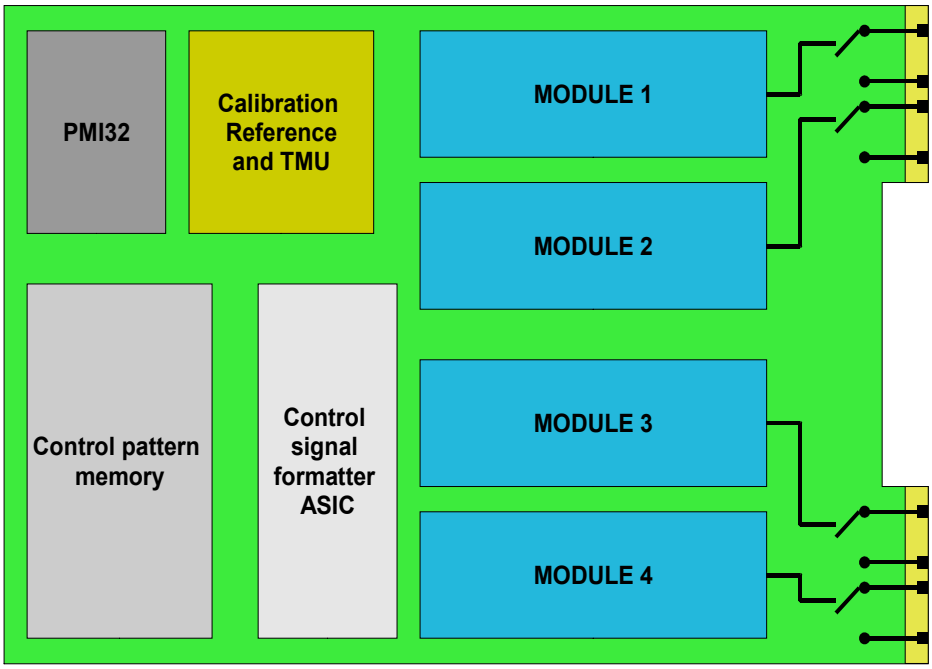
- 16-Bit Fast AWG
- 24-Bit Precision AWG
- 16-Bit Fast Digitizer
- 24-Bit Precision Digitizer
- Four High-Voltage Pins



Modular Design

HILEVEL's Mixed Signal resource is more flexible than ever with the MX2. The modular design allows you to configure the MX2 with the analog resources that best fit your application.

Analog Resources for Mixed-Signal Testing

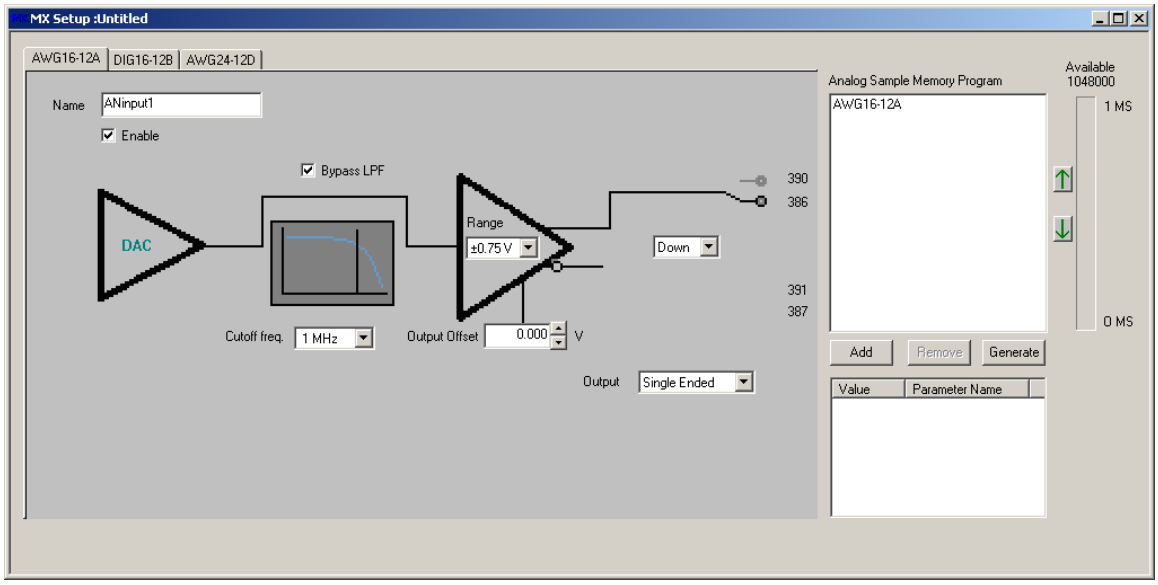


Modular Design for Maximum Flexibility

Mix and match any resources:

- Three 24-bit AWG and one 24-bit Digitizer, or
- Two 16-bit AWG, one each of 16-bit and 24-bit Digitizers, or
- One 24-bit AWG, one Hi-V module and two 24-bit Digitizers, or
- One of everything
- Mix in any combination

Easy To Use GUI Setup Software



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Specifications

16-Bit Fast AWG	**24-Bit Precision AWG**
Resolution: 16-bit Update rate: 80MSPS Pattern depth: 1M Output ranges: 0.75V, 1.5V, 2V, 3V, 4V,6V,8V,12V Output offset voltage: -3V to +3V Output filters: none, 10MHz, 25MHz DNL ≤ ±0.5 LSB @ +25º C INL ≤ ±1.0 LSB @ +25º C THD ≤ –95 dB @ fOUT = 1 MHz SFDR ≥ 78 dBc @ fOUT = 20 MHz	Resolution: 24-bit Update rate: 196kSPS Pattern depth: 1M Output ranges: 0.75V, 1.5V, 2V, 3V,4V,6V,8V,12V Output offset voltage: -3V to +3V Output filters: none, 1.5kHz, 22kHz, 100kHz SNR/DNR ≥ 120 dB THD + N ≤ –110 dB

16-Bit Digitizer	**24-Bit Digitizer**
Resolution: 16-bit Update rate: 80MSPS Pattern depth: 1M Input ranges: 0.75V, 1.5V, 2V, 3V, 4V,6V,8V,12V DC offset voltage: -3V to +3V Input filters: none, 1MHz, 10MHz, 25MHz Input impedance: 1MOhm, or 600 Ohm DNL ≤ ±0.5 LSB @ +25º C INL ≤ ±3.0 LSB @ +25º C S/N ≥ 77 dB @ fOUT= 10MHz SINAD ≥ 75 dB @ fOUT = 10 MHz SFDR ≥ 80 dBc @ fOUT = 10 Mhz	Resolution: 24-bit Update rate: 2.5MSPS Pattern depth: 1M Input ranges: 0.75V, 1.5V, 2V, 3V,4V,6V,8V,12V DC offset voltage: -3V to +3V Input filters: none, programmable from 19.2kHz up to 1.35MHz, 16- steps Input impedance: 1MOhm, or 600 Ohm DNL – guaranteed monotonic to 24 bits INL ≤ 0.00076 %FS S/N ≥ 112 dB THD ≤ -105 dB SFDR ≥ 120 dBc

High Voltage Digital Pins
Each Optional High-Voltage Module includes:

- Four high-voltage stimulus pins, range 0V to +15VDC
- All standard stimulus formats accepted
- High Impedance on/off time 60ns.
- 10mV resolution, +-5mV accuracy, slew rate 2500V/us
- 50mA source, sink current
- 64M vectors depth

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HILEVEL TECHNOLOGY, INC.
17805 Sky Park Circle, Suite E
Irvine CA, 92614
1-800-HILEVEL