

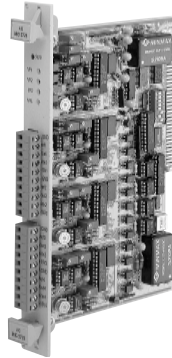
MIC-2718 16-Channel Analog Input Module

The MIC-2718 offers multiple, high-speed data acquisition functions. It is a cost effective solution for industrial measurement and monitoring.

- **Channels:** 16 single-ended or 8 differential, switch selectable
- **A/D converter:** 12-bit, 8 μ sec. max. conversion time
- **On-board FIFO:** 1 K words
- **Input range** (software programmable):
Bipolar: ± 0.005 , ± 0.01 , ± 0.05 , ± 0.1 , ± 0.5 , ± 1 , ± 5 , ± 10 V
Unipolar: 0 to 0.01, 0 to 0.1, 0 to 1, 0 to 10 V
- **Overvoltage:** ± 30 V max.
- **Maximum data throughput:** 100 kHz (depends on input amplifier settling time and slew rate)

Gain	Speed
0.5, 1	100 kHz
5, 10	35 kHz
50, 100	7 kHz
500, 1000	0.8 kHz
- **Accuracy:**

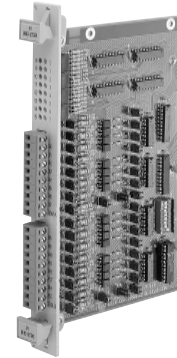
Gain=0.5, 1	0.01% of FSR ± 1 LSB
Gain=5, 10	0.02% of FSR ± 1 LSB
Gain=50, 100	0.04% of FSR ± 1 LSB
Gain=500, 1000	0.08% of FSR ± 1 LSB
- **Linearity:** ± 1 -bit
- **Trigger mode:** Software, pacer or external
- **Ext. trigger:** TTL compatible
- **Data transfer:** Program, interrupt or DMA
- **Signal conditioning circuit:** Space for RC filter and 250 Ω current shunt
- **Power consumption:** +5 V @ 0.5 A max.; +12 V @ 0.2 A max.



MIC-2728 4-Channel Isolated Analog Output Module

The MIC-2728 provides four double-buffered 12-bit D/A outputs. Over 500 V_{DC} of bus isolation protect your PC and peripherals from dangerous output voltages.

- **Channels:** 4 isolated D/A channels
- **Resolution:** 12-bits, double buffered
- **Output range:**
Unipolar: 0 to +5 V, 0 to +10 V
Bipolar: ± 5 V, ± 10 V
Current loop (sink);
0 to 20 mA, 4 to 20 mA
- **Settling time:** ≤ 60 μ seconds
- **Accuracy:** $\pm 0.012\%$ FS
- **Isolation voltage:** > 500 V_{DC} bus isolation
- **Reference voltage:**
Internal: -5 V or -10 V
External: ± 10 V max. AC or DC
- **Voltage output drive:** ± 10 mA max.
- **Current loop excitation:** 8 V to 36 V
- **Power consumption:**
+5 V @ 0.5 A max.;
+12 V @ 0.2 A max.



MIC-2730 16-Channel Isolated Digital Input Module

The MIC-2730 features a limit switch, alarms and/or sensors for noisy environments, and 16 optically isolated digital input channels for monitoring device On/Off status.

- **Number of inputs:** 16
- **Input mode:** isolated or non-isolated (jumper selection)

Isolated Inputs

- **Number of commons:** 2 (isolated)
- **Input voltage:** 0 ~ 30 V
- **Threshold voltage:**
Logic "0" : < 1 V
Logic "1" : > 4 V
- **Input impedance:** 2 k Ω
- **Isolation voltage:** 2500 V_{DC}
- **Throughput:** 10 kHz

Non-isolated Inputs (TTL-level)

- **Input voltage:**
Low: 0.8 V max.
High: 2.0 V min.
- **Input load:**
Low: 0.4 mA max @ 0.5 V
High: 0.05 mA max @ 2.7 V
- **Pull-up resistor:** 10 k Ω for dry contact
- **Throughput:** 30 kHz typical
- **Number of indicator LEDs:** 16
- **Indication mode:**
Logic "1" : LED On
Logic "0" : LED Off
- **Power consumption:** +5 V @ 2 A