

iDAQ-731

iDAQ-751

iDAQ-763D

16-ch IDI and 16-ch Universal IDO iDAQ Module

48-ch TTL Digital I/O iDAQ Module

16-ch SSR Output iDAQ Module



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Specifications

Isolated Digital Input

- Channels 16
- Input type Sink (NPN)
- Input logic level (referenced to DICOM) OFF state 0 V ~ +3 V
ON state +10 V ~ +40 V
- Input current draw OFF state 1 mA max.
ON state 3 mA max.
- Input protection voltage +60 V max., -8 V min.
- Response time 100 μ s max.
- Debounce filter 10 μ s ~ 84 ms, software configurable
- Isolation protection 600 VRMS
- Acquisition type Instant or buffered, software configurable
- Buffered acquisition Sample rate 10 kHz max., software configurable
Internal data buffer (FIFO) size 512 samples, each sample contains state of all channels
- Edge detection Rising edge, falling edge, or both edges, software configurable for each channel independently
- Pattern match detection By port detection, each channel can be enabled or disabled by software independently
- Frequency 1 kHz max.
- Other feature Latch digital input states when interrupt occurs
- Timing signal output to chassis From one of the digital input channels or digital input pattern match event, software configurable

Universal Isolated Digital Output

- Channels 16
- Output type Sink (NPN) or source (PNP), software configurable per port (8-channel)
- Load voltage +10 V ~ +40 V
- Load current 350 mA max. per channel
- Output impedance 0.2 Ω max.
- Response time 100 μ s max.
- Isolation protection 600 VRMS
- Current limit protection Yes
- Flyback diode protection Yes
- Power-on output state OFF state
- Acquisition type Static or buffered, software configurable
- Buffered output Update rate 10 kHz max., software configurable
Internal data buffer (FIFO) size 512 samples, each sample contains state of all channels

General

- Power consumption from chassis 425 mW typ./ 450 mW max.
- Dimensions 100 x 80 x 25 mm (3.94 x 3.15 x 0.98 in.)
- Operating temperature -20 °C to 60 °C (-4 °F to 140 °F)
- Storage temperature -40 °C to 70 °C (-40 °F to 158 °F)
- Operating humidity 10% to 90% RH, non-condensing
- Storage humidity 5% to 95% RH, non-condensing
- Vibration 5Grms
- Shock 30G
- Certification EMC: CE, FCC
Safety: CB, UL

Ordering Information

- iDAQ-731-AE 16-ch IDI and 16-ch Universal IDO iDAQ module

Specifications

- Channels 48, software configurable for input or output
- Digital Input Input logic level Logic high 3.5 V min.
Logic low 1.5 V max.
Working voltage -0.25 V ~ 5.25 V
-0.5V ~ 6.5V
50 k Ω
- Input protection voltage 5 μ s max.
- Pull-down resistor 5, 12 μ s ~ 84 ms, software configurable
- Response time Instant or buffered, software configurable
- Debounce filter
- Acquisition type
- Buffered acquisition Sample rate 10 kHz max., software configurable
Internal data buffer (FIFO) size 256 samples, each sample contains state of all channels
- Interrupt Edge detection Rising edge, falling edge, or both edges, software configurable for each channel independently
Pattern match detection By port detection, each channel can be enabled or disabled by software independently
Frequency 1 kHz max.
Latch digital input states when interrupt occurs
- Other feature From one of the digital input channels or pattern match output, software configurable
- Trigger output to chassis

Digital Output

- Output logic level Logic high 4.0 V min. @ 2 mA source, 5.2 V max.
Logic low 0.3 V max. @ 2 mA sink
- Output current One channel 5 mA max.
All channels summed 64 mA max.
- Response time 5 μ s max.
- Default output state Logic low
- Acquisition type Static or buffered, software configurable
- Buffered output Update rate 10 kHz max., software configurable
Internal data buffer (FIFO) size 256 samples, each sample contains state of all channels

General

- Power consumption from chassis 1.05 W typ. / 1.5 W max.
- Dimensions 100 x 80 x 25 mm (3.94 x 3.15 x 0.98 in.)
- Operating temperature -20 °C to 60 °C (-4 °F to 140 °F)
- Storage temperature -40 °C to 70 °C (-40 °F to 158 °F)
- Operating humidity 10% to 90% RH, non-condensing
- Storage humidity 5% to 95% RH, non-condensing
- Vibration 5Grms
- Shock 30G
- Certification EMC: CE, FCC
Safety: CB, UL

Ordering Information

- iDAQ-751-AE 48-ch TTL Digital I/O iDAQ module

Optional Accessories

- PCL-10162-1E DB-62 Shielded Cable, 1m
- PCL-10162-3E DB-62 Shielded Cable, 3m
- ADAM-3962-AE DB-62 Wiring Terminal, DIN-rail Mount

Specifications

Solid State Relay (SSR) Output

- Channels 16
- Load voltage 60 VDC max.
- Load current 1.3 A max. @ 25 °C / 0.7 A max. @ 60 °C per channel
- Peak load current 4 A (100 ms, 1 pulse)
- Output impedance 0.13 Ω typ./0.5 Ω max.
- OFF-state leakage current 1 μ A max.
- Response time Turn-on time 1.0 ms typ./1.3 ms max.
Turn-off time 0.6 ms typ./0.8 ms max.
- Isolation protection 600 VRMS
- Power-on output state OFF state
- Acquisition type Static or buffered, software configurable
- Buffered output Update rate 500 Hz max., software configurable
Internal data buffer (FIFO) size 512 samples, each sample contains state of all channels

General

- Power consumption from chassis 225 mW typ./ 800 mW max.
- Dimensions 100 x 80 x 25 mm (3.94 x 3.15 x 0.98 in.)
- Operating temperature -20 °C to 60 °C (-4 °F to 140 °F)
- Storage temperature -40 °C to 70 °C (-40 °F to 158 °F)
- Operating humidity 10% to 90% RH, non-condensing
- Storage humidity 5% to 95% RH, non-condensing
- Vibration 5Grms
- Shock 30G
- Certification EMC: CE, FCC
Safety: CB, UL

Ordering Information

- iDAQ-763D-AE 16-ch SSR Output iDAQ module