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Digital488HS/32™

High-Speed 32-Bit IEEE 488 Digital I/O Interface

Features

- Provides up to 1 Mbyte/s transfer between the IEEE 488 bus & digital I/O lines
- Outputs 8-bit digital bytes at up to 1 Mbyte/s; outputs 16-bit digital words at up to 500K words/s
- Inputs 8-bit digital bytes at up to 1 Mbyte/s; inputs 16-bit digital words at up to 500K words/s
- Offers complete set of I/O handshake, control, & status lines
- Provides TTL & HCMOS compatible I/O lines



Read and write up to 16-bit digital words at rates up to 1 Mbyte/s with the Digital488HS/32

The Digital488HS/32 is a 1 Mbyte/s, 32 I/O-line digital interface for high-speed data transfer between the IEEE 488 bus and a wide range of devices with digital interfaces, such as computers, BCD-compatible test equipment, and electronic components, including A/D and D/A converters such as IOtech's [ADC488A](#) and [DAC488HR](#) series. Its extensive handshake, control, and communication capabilities ideally suit it for OEMs, system integrators, and others whose test applications involve high-speed digital data transfer.

The Digital488HS/32's high-speed architecture minimizes test-system overhead and optimizes throughput capacity to the IEEE 488 bus--an important consideration in applications entailing the transfer of large amounts of data between an IEEE 488 controller and other digital devices. For example, the Digital488HS/32 can transfer 8-bit digital information between parallel-digital interfaces and the IEEE 488 bus at 1 Mbyte/s--a much faster rate than can be obtained from alternative digital I/O interfaces, such as most PC plug-in boards.

Similarly, the unit can transfer 12-bit, 14-bit, and 16-bit digital information between parallel-digital interfaces and the IEEE 488 bus at 500K words/s, enabling its use in applications requiring communication paths wider than 8 bits, such as those wherein large amounts of information must be transferred between a workstation and a programmable peripheral device.

Specifications

Indicators: LEDs for Talk, Listen, SRQ, Input Port Full, Output Port Empty, and Power

Power: 105 to 125V, or 210 to 250V, 50/ 60 Hz; 60 VA max

Environment: 0° to 50°C; 0 to 70% RH non-condensing to 35°C; linearly derate RH 3%/°C from 35° to 50°C

Dimensions: 425 mm wide x 45 mm high x 203 mm deep (16.75" x 1.75" x 8")

Weight: 4.5 kg (10 lbs)

Controls: Power switch, external switch for IEEE 488 bus address, internal switches for output data power-on levels, SRQ and *ist* (individual status message) enable, output data logic sense, input data logic sense and logic sense for Trigger, Clear, Handshake, and END lines

Supplied Accessories: Two (2) mating solder-tab I/O connectors, power cord, manual, and rack-mount kit

Digital I/O Interface: 16-bit TTL-compatible inputs and 16-bit TTL compatible outputs; also, two output and two input data handshake lines, two status bit lines, clear output, trigger output, reset input, input END of data, and output END of data lines

Ordering Information

Description

Part No.

32-bit IEEE 488/digital I/O interface,
including rack-mount kit

Digital488HS/32

Cable with male DB37 connector for Digital488HS/32
I/O data lines, 6 ft

CA-92

Shielded IEEE 488 cable, 6 ft

CA-7-3

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