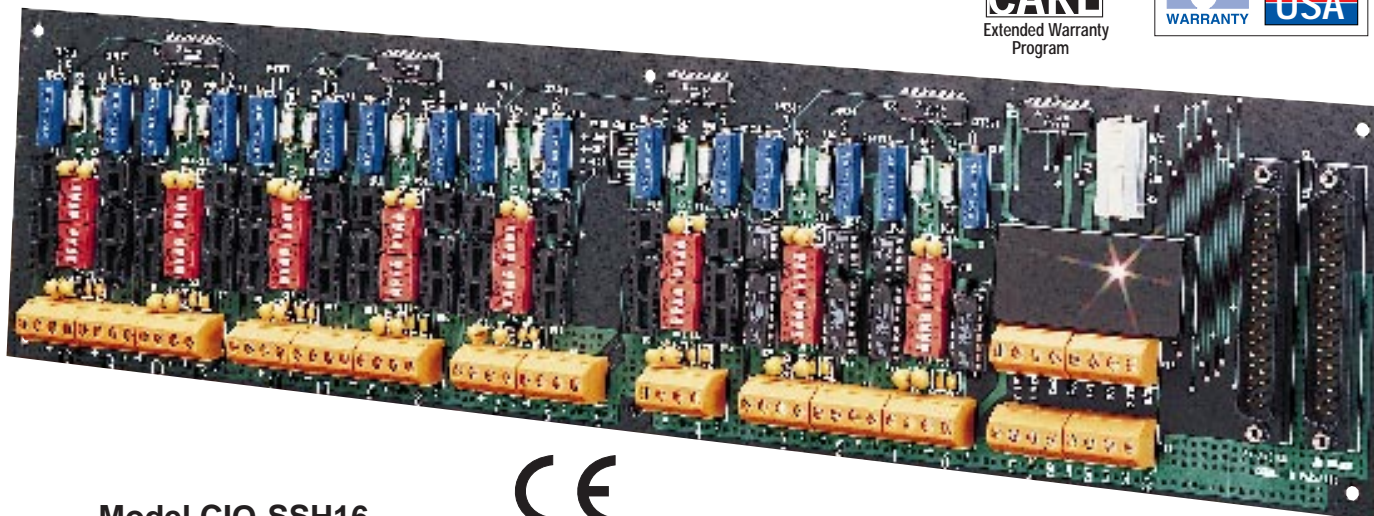


CIO-SSH16 16-Channel Simultaneous Sample and Hold Accessory Board

For CIO-DAS1600/1400/16 Series A/D Boards



Model CIO-SSH16

\$399

Basic Unit



- ✓ 16 Individually Calibrated Channels
- ✓ Total Aperture Uncertainty <50 nsec
- ✓ Eliminates Channel-to-Channel Skew Associated with Multiplexed A/D Inputs

The CIO-SSH16 16-channel simultaneous sample and hold accessory board acts as a front end signal amplification and capture for the CIO-DAS1600, CIO-DAS1400 and CIO-DAS16 series of analog input boards. Sixteen differential amplifiers feature individual

switch selectable gains of 1, 10, 100, 200, 300, 500, 600, 700 and 800. After amplification, each channel's sample and hold is controlled by the analog input board. Total aperture uncertainty for all 16 circuits is less than 50 nsec. The CIO-SSH16 eliminates the channel-to-channel skew associated with multiplexed A/D inputs. A fast A/D board sampling at 100,000 samples per second exhibits a minimum channel-to-channel skew of 10 μ sec. Since the skew is additive from channel to channel, the 16 channel total scan skew is 160 μ sec. In applications where a number of signals must be analyzed and captured, such as high speed transient and spectrum analysis, a channel-to-channel skew may be unacceptable. Low speed applications such as oscillographic recording and display may also

require simultaneous sampling of all channels.

Works with CIO-DAS1600 series, CIO-DAS1400 series, CIO-DAS16, CIO-DAS16F, CIO-DAS16JR, CIO-DAS16-330

Specifications

- Channels:** 16
- Gain:** 1, 10, 100, 200, 500, 600, 700
- Aperture Time (Max.):** 250 nsec
- Aperture Time (Avg.):** 175 nsec
- Aperture Uncertainty:** ± 25 nsec
- Acquisition Time (Max.):** 10 μ sec
- Droop Rate:** $\pm 100 \mu$ V/msec
- Accuracy:** 0.01% of reading ± 1 bit
- Power Consumption (Max.):** 5.9 watts
- Dimensions:** 16" W x 4" H (406 x 102 mm)
- Weight:** 11.5 oz. (325 g)

To Order (Specify Model Number)

Model No.	Price	Description
CIO-SSH16	\$399	16-channel simultaneous sample and hold accessory board with 4 channels installed (see CIO-SSH-AMP below to order additional channels)
CIO-SSH16/DST	469	Same as CIO-SSH16 with detachable screw terminals
CIO-SSH-AMP	39	One additional channel of amp and sample and hold. Up to 12 may be added to the 4 channels installed in the CIO-SSH16 (for a total of 16). May be field installed.
C37FFS-5	35	Cable, shielded round cable with molded connectors, 5' (1.5 m) to connect to CIO-DAS16 series
C37FFS-10	40	Cable, shielded round cable with molded connectors, 10' (3 m) to connect to CIO-DAS16 series
C37FF-2	25	Cable, 2 foot unshielded flat ribbon cable. Connects to CIO-DAS16 series

Ordering Example: CIO-SSH16 and OMEGACARESM 1-year extended warranty (adds 1 year to standard 3-year warranty) \$399 + 39 = \$438



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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

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• Pressure, Strain and Force

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters