

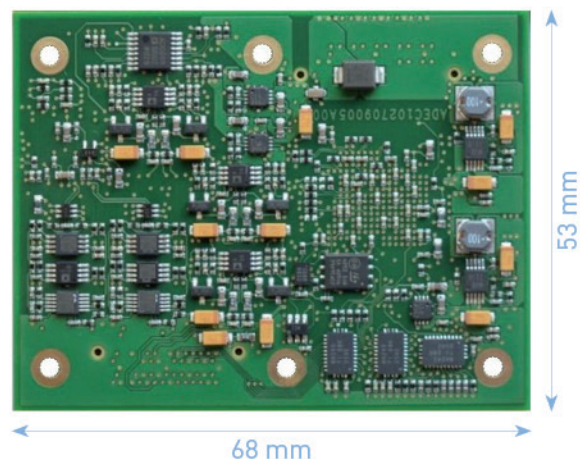
MEGALINK

ADC proximity board for Sofradir IR detectors



THE COMPACT PROXIMITY BOARD
THAT FACILITATES THE MANAGEMENT
AND THE INTEGRATION OF SOFRADIR
DETECTORS IN YOUR CAMERA.

Megalink is a Command and Control Electronic (C&CE) that drives Sofradir detectors and provides a digital video output. This proximity board enables you to easily interface your camera electronics with the detector through cameralink interface.



BOARD FUNCTIONALITIES

- Drives the detector (bias supplies, clocks, digital signals)
- Performs analog to digital conversion and multiplexing of the detector outputs
- Provides the system electronics with a digitized signal
- Monitors the FPA temperature
- Provides an input interface for external synchronization of the ROIC
- Provides an input interface to control and command the detector (windowing, integration time, ITR, IWR...)

DETECTOR COMPATIBILITY

- | | |
|------------|---|
| • Firmware | Loaded at Sofradir / different for each detector |
| • Flex | Mechanically and electrically different for each detector |

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ELECTRICAL PERFORMANCES & INTERFACES

Power consumption	< 1.6 Wdc @ 20°C
Power supply	6V
ADC	1 output: 14 bit
Video output	Cameralink
Frame trigger / Sync	CC1 Cameralink
External clock	CC2 Cameralink (= Master Clock)
Reset input	CC3 Cameralink
Settings control	Cameralink UART

MECHANICAL FEATURES

Dimensions	68 x 53 x 8.6 mm ³
Board weight	< 25g
Flex weight	< 10g (standard configuration)
Connector to system	SAMTEC QSH-30-01-C-D-A
Connector to cooler controller	NICOMATIC 101R03LS
Operating temperature	-40°C / +71°C
EMC	Designed with state-of-the-art EMC rules. Tests to be performed by customer in final system (due to the main importance of system shielding for EMC protection).

OPTIONS

- Flex mechanical shape and size customization
- Technical training and support
- Connection kit
(tool enabling an easy connection of the MEGALINK board with host system, for use in laboratory conditions)

Technical characteristics described in this data sheet are for information only.
They are not contractual and may change without prior notice.

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DEVELOPMENT AND PRODUCTION FACILITIES

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SOFRADIR

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