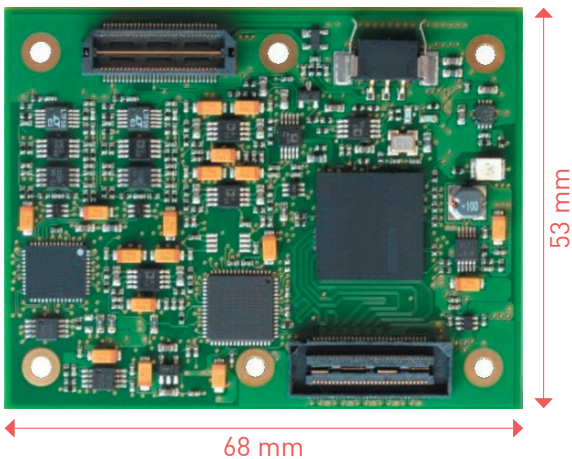


MEGALINK

ADC proximity board for Lynred 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 Lynred 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 (low noise 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 command and control the detector (windowing, integration time, ITR, IWR...)

INPUT / OUTPUT

| | |
|--------------|---|
| Detectors | Mars, Epsilon, Scorpio MW/LW, Jupiter (limited to 60 Hz), Snake (limited to 180 Hz) |
| Firmware | Adapted to each detector |
| Flexible PCB | Mechanically and electrically different for each detector |

MEGALINK

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ADC proximity board for Lynred IR detectors

→ The compact proximity board that facilitates the management and the integration of Sofradir detectors in your camera.

ELECTRICAL PERFORMANCE & INTERFACES

| | |
|-----------------------|---|
| Power consumption | < 1.6 W @ 20°C |
| Power supply | 6V _{DC} |
| Video input | 4 channels : 14 bits ADC up to 20 Msps / SNR > 77dB |
| Video output | 1 Cameralink® output (base mode / dual base mode) |
| Frame synchronization | Internal or external through Cameralink® Control Signal |
| 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 to +71°C |
| EMC | Designed with state-of-the-art EMC rules. |
| Environmental conditions | Qualified for military environments (MIL - STD - 810 E) |

OPTIONS

Adaptation to other Sofradir detectors

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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LYNRED

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