ATOMAS Micro HD-SDI

HD-SDI Input Module For ATOMAS Micro

The ATOMAS Micro HD-SDI module is a video interface add-on module designed for use with the ATOMAS Micro encoder. This optional module converts any HD-SDI video input to a parallel video interface compatible with the ATOMAS Micro encoder.

Features

- Support for HD-SDI video sources (up to 1080p)
- Direct connect to ATOMAS Micro encoder
- Miniaturized form factor with HD-BNC connector
- Extended temperature design (-20°C to +85°C)
- Integrated adaptive cable equalizer (up to 400m)
- Cable driver for HD-SDI loop out

Miniaturized Stacked Solution

The ATOMAS Micro HD-SDI module is designed to stack with the ATOMAS Micro encoder in order to provide the means for building full products in the smallest form factor possible.
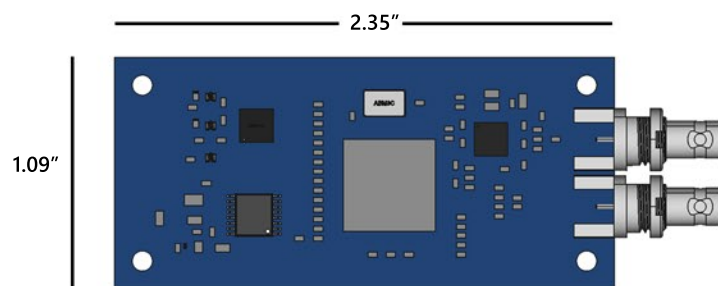

Full HD-SDI to IP Solution

By combining your favorite HD-SDI video source, the ATOMAS Micro HD-SDI module and the ATOMAS Micro encoder, you have the ability to design a full HD-SDI to IP solution tailored to your needs. In addition, you can add the ATOMAS Micro PoE module to the mix in order to add support for 802.3af power over ethernet.

Target Applications

- Video surveillance cameras
- Industrial image processing
- Handheld or mobile devices
- UAV / military applications

DIMENSIONS

2.35"

1.09"

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Standard / Integrated Interfaces

Video Input	1 x HD-BNC Connector 75 Ohm
Video Output	1 x HD-BNC Connector 75 Ohm * Loop-out of video input
Connectivity	1 x Board to board conector * Connection to ATOMAS-MICRO encoder only * Exposes: video signal, i2c for command / control

Video Specifications

Video Standards	Supports the following video standards:
	  - SMPTE 425M (Level A and Level B)
	  - SMPTE 424M
	  - SMPTE 292M
	  - SMPTE 259M-C
	* Interlaced video signals not supported

Video Resolution	Supports the following resolutions:
	  - 1080p (25,30,50,60 fps)
	  - 720p (25,30,50,60 fps)
	* Additional resolutions upon request

Features

Cable Equalizer	Integrated adaptive cable equalizer
	Integrated Reclocker with low phase noise
	Integrated VCO
	Typical equalized length of cable:
	  - 150m at 2.97Gb/s
	  - 230m at 1.485Gb/s
	  - 440m at 270Mb/s

Mechanical / Environmental

Dimensions	1.09" x 2.35" mm * Same dimensions as the ATOMAS-MICRO
Power Consumption	Approx. 700mW
Operating Temp.	-40C to 85C (case temperature)
Warranty	2 Years Standard
Other	Pb Free, RoHS compliant

IO NODES
IMAGING TECHNOLOGY