

DIGITAL INDUSTRIES SOFTWARE

Simcenter SCADAS Recorder Dual Video Camera Input Module

Simcenter/SCM-CIM2/2406/20240625

Product Information Sheet

Summary

In addition to the acquisition of a wide range of sensor signals such as acceleration, strain and sound, Simcenter SCADAS Recorder supports synchronized operation of video camera images.

The combination of measurement data and excellent, high resolution HD video streams provides essential information on where and when the sensor signals are acquired.

The CIM2 is a dual channel digital interface for Simcenter SCADAS Recorder only, supporting up to two HD cameras. (both stand alone and frontend mode).

The CIM2 input module acquires one or two video streams in parallel to dynamic signals (such as vibration, strain and sound); CAN bus data and GPS data.

BENEFITS

- End-to-end solution
- High quality video recording
- Quick and easy measurement setup, easy data validation
- Compact and rigid cameras

FEATURES

- Support of 2 cameras per module
- Synchronous acquisition of video signals
- Support for 720p HD and VGA resolution
- Frame rate from 1 up to 30 fps
- Rugged connection through LEMO connectors
- Camera power using PoE technology (Power-over-Ethernet)
- Fault detection with LED indication on front-panel

The video streams are automatically synchronized through time stamping. The CIM2 input module includes two separate Fast Ethernet interfaces to stream H.264 compressed video from the two, supplied IP cameras to the on-board Compact Flash card of the Simcenter SCADAS Recorder system. Note: The CIM2 module from Simcenter Testlab 18 is supporting frontend mode operation.

The cameras receive power from the CIM2 module through the Ethernet interface using PoE (Power-over-Ethernet) technology – no need for external powering

About IP cameras

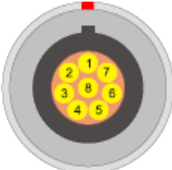
An Internet Protocol camera, or IP camera, is a digital video camera transferring its data via an Ethernet interface.

The IP cameras have following specifications:

- a resolution of up to 1280 x 960 and up to 720p HD image quality
- 2 aspect ratios: 4:3 (computer) and 16:9 (TV)
- Frame rate: 1 up to 30 frames per second.
- Onboard H.264 compression for reduced bitrate and better quality
- 1/3.8 type progressive scan CMOS sensor incorporated to deliver high image quality
- Powered by PoE
- Based on SONY SNC-CH110 IP network camera



Specifications CIM2	
Input	
Input function	Dual Fast Ethernet (100Base-TX) for up to two cameras
Input connector	eight (8) pin LEMO connectors
Synchronization	
	Automatic synchronization of video images, with dynamic data, synchronization through time stamps. The Simcenter SCADAS Recorder support maximum one (1) CIM2 module per frame. (Two cameras) The CIM2 module operates in standalone/recorder mode only.
Module details	
Power consumption	During normal operation, less than 8W, including two cameras
Front panel indication	Fault detection with LED indication on front-panel
Cable length	Maximum 80 m
Dimensions	One SCADAS slot
Specifications video camera	
Camera type	IP-camera, SONY SNC-CH110
Supported formats	SMTPE VESA
Aspect ratio	16:9 4:3
Maximum Resolution	1280x720 1280 x 960
Maximum Frames/sec	30 30
Video compression	Onboard H.264 compression
Power	Power supply by CIM2 module; based on PoE (Power over Ethernet Class 1 IEEE802.3af compliant) technology
Protection	
ESD protection	According to EN61000-4-2, level 2 and ISO10605
EMC protection	Comply with CE-EMC directive, when installed in a SCADAS Mobile frame
Shock protection	MIL-STD-810G specified in MIL-STD-810G method 516.5, Shock Amplitude: 60 gpk.
Vibration protection	MIL-STD-810G method 514.5, procedure 1, Category 24: RMS 7.694g
Ambient operating temperature range	-20 °C to +55 °C
Storage temperature range	-20 °C to +70 °C
Housing	
Dimensions	One SCADAS slot

CONNECTION	DETAILS	REMARKS
<p>8-pin LEMO: channels 1 and 2</p>  <p>Chassis = Analog Ground Not connected implicates: DO NOT USE</p>	<p>Connector type: LEMO-EGG.IB.308</p> <p>Pin details:</p> <ol style="list-style-type: none"> 1) CAM_TX+ 2) CAM_RX+ 3) Ground 4) -V_{PoE} 5) -V_{PoE} 6) CAM_RX- 7) CAM_TX- 8) Ground 	<p>Mating connector: LEMO-FGG.IB.308.CLADxx</p>



Ordering information

Support of Simcenter SCADAS Frames and Modules may be restricted in specific Simcenter Testlab application workbooks.

Please check with your local representative for full details.

SCM-CIM2: Simcenter SCADAS Mobile dual video camera input module; including 2 video cameras

Included accessories

Two STP07 - 2m long Shielded Twisted Pair cables

Two SNC-CH110 Sony Cameras

Two suction cups