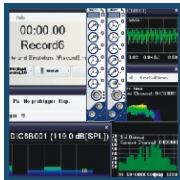


DATA SHEET

LMF2 record+lemo (Code 3603)

Link module for 2 subsystems, with USB 2.0, IEEE 1394b (FireWire®), Gbit Ethernet (10/100/1000 Base T) and GPS for stand-alone operation or use with a computer



Features

- Link module for two subsystems (16 modules; up to 384 channels)
- Operation as a classic front-end system connected to a computer or as a stand-alone front-end for operation without a computer (direct data storage e.g. to an SMM128 or SMM256 memory module, a USB stick or an external hard disk)
- Media interface (LEMO) for transferring data to the SMM128 or SMM256 memory module via FireWire®
- Interfaces for transferring data to a PC
- USB host for connecting e.g. an external hard disk
- TIME interface for using absolute time information in the IRIG Time Code, for PPS (pulses per second) and GPS data (firmware 2.32 or newer)
- Highly precise synchronization of the incoming signals

- Calibration of the signal modules being combined to one system

Scope of Supply

- LMF2 record+lemo (Code 3603) Link module for 2 subsystems, with USB 2.0, IEEE 1394b (FireWire®), Gbit Ethernet (10/100/1000 Base T) and GPS for stand-alone operation or use with a computer
- FireWire® cable
- LAN cable

Software (required)

- HEAD Recorder (Code 4630) Programmable recorder software
- Frontend Reader (Readout of the data saved in the stand-alone mode from the external storage medium)

Software (optional)

- ArtemiS (Code 4600) Analysis software

Overview

The link module LMF2 record+lemo serves as the central processing unit if several signal modules are combined into one system.

With LMF2 record+lemo, recordings can be made with or without a computer. In stand-alone mode, LMF2 record+lemo saves the data directly to e.g. a memory module (SMM128 or SMM256), a USB stick or an external hard disk, increasing the mobility and versatility of the DATaRec 4 system.

With its two link inputs, LMF2 record+lemo allows the connection of up to 16 signal modules, divided into two groups of eight modules (subsystems).

The signals are synchronized by the link module and passed to the computer or, in stand-alone mode, directly to a memory module, a USB stick or an external hard-disk via FireWire®, USB or Ethernet.

Furthermore, LMF2 record+lemo also features an interface for using the absolute time information of the IRIG Time Code as well as GPS and PPS data.

Accessories (optional)

- DSM (Code 3690) DATaRec 4 Seat Mount Seat Mount for DATaRec 4 systems
- SMM128 (Code 3660) DATaRec 4 storage module with 128 GB flash memory
- SMM256 (Code 3661) DATaRec 4 storage module with 256 GB flash memory

Technical Data LMF2 record+lemo

Bit rate:	Max. 600 MBit/s
Link interfaces:	2
Computer interfaces:	IEEE 1394b USB 2.0 Gbit Ethernet (10/100/1000 Base T)
Sustained interface bit rate	
Gbit Ethernet (10/100/1000 Base T):	Max. 600 Mbit/s
IEEE 1394b:	Max. 180 Mbit/s
USB 2.0:	Max. 180 Mbit/s
Cable length per subsystem:	Max. 50 m (1968.5")
Cable length between two modules:	Max. 10 m (393.7")
C-REM interface:	7 digital inputs (max. 36 V)
C-REM output:	7 x open collector (max. 60 mA, max. 36 V)
Time code interface:	IRIG-A, -B and -G (input/output) PPS (input/output) GPS, serial RS-232, RS-422
Computer interface:	IEEE 1394b (FireWire®) USB 2.0 (target) Gbit Ethernet (10/100/1000 Base T)
Storage interface:	IEEE 1394b (FireWire®), USB 2.0 (HOST)
SMM storage modules interface:	160 Mbit/s
RTC:	Battery-powered
Time accuracy:	20 ppm
Measurements:	70.1 x 184 x 124.5 mm (2.76" x 7.24" x 4.9") (width x height x depth)
Weight:	1.1 kg (2.4 lb), typical
Cooling system:	Fan, automatic control
Power consumption:	Max. 30 W
Supply voltage:	10 to 36 V DC
Special features:	Low power control for the input voltage
Supply unit:	Link connection
Vibration:	5 g (0.011 lb)
Shock:	10 g (0.022 lb)
Operating temperature:	
Stand-alone module:	-20° C to +70° C (-4° F to 158° F)
Link chain system:	-10° C to +55° C (14° F to 131° F)
Storage temperature:	-40° C to +90° C (-40° F to 194° F)
Humidity:	0 - 95 % relative, not condensing

Accessories (optional)

- PWD (Code 3651)
9-36 V DC power adapter for the DATaRec 4 series
- PWH9 (Code 3652)
12 - 36 V DC power adapter for the DATaRec 4 series
- PWAC (Code 3650)
90 - 130 V, 180 - 260 V
AC power adapter for the DATaRec 4 series

