General

The HEIM DATaRec 4 series supports the front-end mode (data streaming to a PC) and also the standalone recorder mode (data streaming direct to a storage device).

In this standalone recorder mode the Link Module writes the collected data from the Signal Module directly to a storage device via USB 2.0 or IEEE 1394b interface. For harsh applications ZODIAC DATA SYSTEMS GMBH provides a HEIM DATaRec 4 SMM storage module with a rugged version of the storage data interface connection to the Link module. The HEIM DATaRec 4 SMM is a flash based storage device and has available a USB 2.0, IEEE 1394b interfaces and a separate power plug for download purposes.

SMM

Media	Flash based solid state storage
Capacity	Up to 256 Gbytes
Maximum bit rate	Up to 200 Mbit/s
Bit error rate	better than 10^{-14}
Download interface	IEEE 1394b, USB 2.0
Link Module interface	IEEE 1394b
Dimensions	48.1 x 184 x 124.5 mm (w x h x d)
Weight	1.1 kg typical
Power consumption	max. 10 W
Power source	
Operational	via Link Module interface
Download	via separate power plug, 5V

Connector

USB 2.0	standard target connector
IEEE 1394b	standard IEEE 1394b connector
Link Module interface	16 pin LEMO connector
Ex. Power plug	2.5 mm power jack

Available Models

Article Number	Storage Capacity	Operating Temperature Range	Data Rate
HS300-2005	128 GB	-5 °C - +55 °C	200 MBit/s
HS300-2006	256 GB	-5 °C - +55 °C	200 MBit/s
HS300-2014	64 GB	-20 °C - +55 °C	140 MBit/s

Environmental specifications

Vibration	5 g
Shock	10 g
Temperature	IEC 60068-2-14-Nb
operational	Model dependent
Storage	-40 °C - +85 °C
Humidity	0 - 93% relative, non-condensing
EMI	DIN EN61000 / DIN EN61326

Notes

Performance varies depending on the installation environment. The shown values were measured using an appropriately designed test system including the HEIM DATaRec 4 power supplies under nominal conditions of temperature, voltage, etc..

Performance is significantly influenced by storage medium type, host computer performance and load, used acquisition software, signal module configuration, power supplies and cabling.

In this specification 1 GB is understood as being 10^9 bytes.

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