

Wrong picture



**General**

The HEIM DATaRec 4 CAN4F Module is a 4 channel CAN-bus and 2 channel FlexRay input module. The module can operate as a standalone front-end (PC connection via USB 2.0) or linked together with additional DATaRec 4 Modules to a multi channel system via HeimLink.  
The DATaRec 4 represents leading edge technology.

**4 channel CAN-bus module**

Number of channels	4
Operation mode	record or replay or message polling mode
Input data	CAN-bus data
Bus frame identifier	CAN 2.0A, CAN 2.0B (11 or 29 bit)
Galvanic isolation	via optocoupler
Impedance	min. 50 KΩ
Maximum bus bit rate	1 MBPS, bitrate selectable per channel
Record information	message time, identifier field (selectable) control field, data field
Message time accuracy	1 ms
Message time resolution	1 μs
Termination	resistor 124 Ω for each channel

**2 channel FlexRay-bus module**

Number of channels	2
Operation mode	record no replay or message polling mode (TBD)
Input data	FlexRay data
Bus frame identifier	???
Galvanic isolation	via optocoupler ???
Impedance	min. 50 KΩ ???
Maximum bus bit rate	10 MBPS, bitrate selectable per channel

Record information

Message time accuracy  
Message time resolution  
Termination

message time, identifier field  
(selectable) control field, data field  
100 n (TBD)  
1 μs (TBD)  
(TBD)

Power consumption  
Power input range  
Connector

max. 10 watts (TBD)  
17 – 28 V DC  
2 x 9-pin D-Sub (female CAN)  
FLEXRAY (TBD)

Dimensions

standard DATaRec 4 housing  
37.1 x 184 x 124.5 mm (w x h x d)  
including fixing system

Weight  
Communication  
Display, button, LED

940 g typical  
HeimLink and USB interface  
yes

**Environmental specifications**

Vibration	5 g
Shock	10 g
Temperature operational	IEC 60068-2-14-Nb
Standalone module	-20 °C - 70 °C -30 °C - 70 °C <sup>1)</sup>
Link chain system	-10 °C - 55 °C -20 °C - 55 °C <sup>1)</sup>
Storage	-40 °C - 85 °C
Humidity	0 - 93% relative, non-condensing
EMI	DIN EN61000 / DIN EN61326 <sup>2)</sup>

# Technical Specification HEIM DATaRec<sup>®</sup> 4 CAN4F

## 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.

- 1) special start-up procedure required
- 2) for operation in industrial environment (according to DIN EN 61326) earthing of the module and / or shielded cable is necessary to prevent influences by external electromagnetic distortions.

## Applications



Miniature system  
Single module system with direct link to the PC via USB 2.0



Distributed data acquisition system  
Remotely located modules (up to 768 channels)



Compact system  
Centralized acquisition system with up to 768 channels



Distributed multi channel system  
Remotely located groups of modules (up to 768 channels)



GSS base system, up to six internal Signal Modules



Decentralized system  
Base system, module extender and external storage

If you need additional information, please contact:

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