

CAN Gateway Modul





Technical data

Construction	Plastic housing with connector
Connector	3 x 18-pol. Molex Mini Fit Junior
Housing dimensions	89 x 95 x 35 mm
Ambient temperature	- 40 °C to 85 °C
Storage temperature	- 40 °C to 85 °C
Protection class	IP53
Operating voltage U _B	9 - 18 V
Protection against reverse polarity and electrical transients.	
Current consumption	
Quiescent current	1 mA (stand-by)

Processor

Manufacturer	Freescale
Processor type	S912XEQ384
Clock frequency	50 MHz
Flash	384 KB
Ram	24 KB
EEPROM	4 KB

Interfaces

CAN-bus

According to ISO 11898-5/3	low / high speed
According to CAN 2.0A	11 Bit standard address identifier
According to CAN 2.0B	29 Bit extended address identifier
Baudrate	10 kBit/s – 1000 kBit/s, Standard 125kBit/s

Technical examination

EMV:	2009/19/EG
e1 approval number:	03 6588



Possible inputs and outputs

Analog inputs (used as digital input)	20
Digital outputs	4
Relay outputs	6

Technical data inputs and outputs

Characteristics analog inputs

Input voltage	0 to 33,68 V
Resolution	12 Bit
Input resistance	22,6 kΩ
Input frequency	up to 20 Hz

Characteristics digital inputs

Input voltage	0 to 30 V
---------------	-----------

Characteristics digital outputs

Load current	up to 2,5 A by 80°C
Overload resistance	

Characteristics relay outputs

Performance per relay	3 A
-----------------------	-----

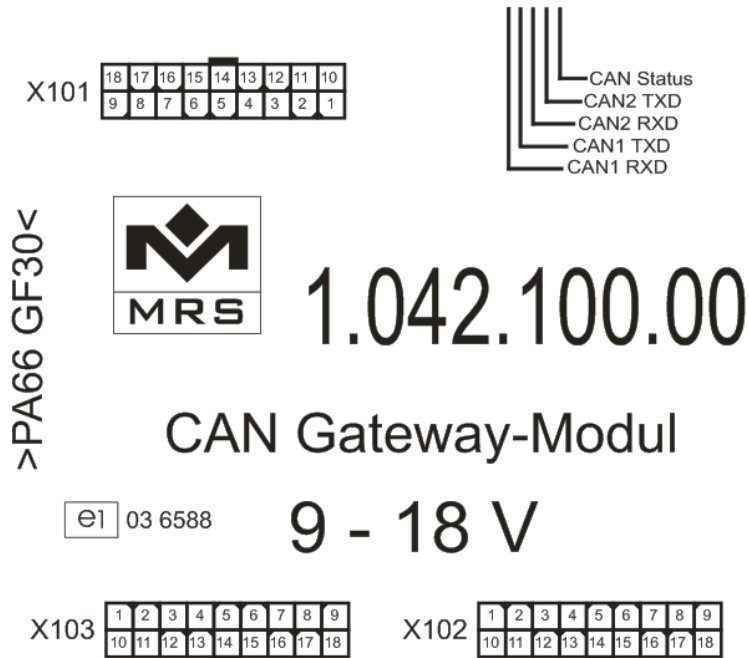
Programming

Interface	CAN-bus
Software	MRS Developers Studio with built-in function library, similar programmable like FUP. Customized program components can be integrated into "C-code". Program memory is sufficient for about 300 simple components.

LED display

CAN	Status
CAN 1	RXD
CAN 1	TXD
CAN 2	RXD
CAN 2	TXD

Connection assignment



www.mrs-electronic.de

Connection assignment

Pin	Signal	Pin Description
X101.01	GND	Masse
X101.02	KL15	Zündung
X101.03	ANA_19	Analogeingang 0 – 12 V
X101.04	ANA_20	Analogeingang 0 – 12 V
X101.05	n.c.	
X101.06	n.c.	
X101.07	CAN2_H	CAN High 2
X101.08	CAN1_H	CAN High 1
X101.09	CAN0_L	CAN Low 0
X101.10	KL 30	Zündung
X101.11	BL	Bootloader
X101.12	HSD1	HSD- Ausgang 1
X101.13	HSD2	HSD- Ausgang 2
X101.14	HSD3	HSD- Ausgang 3
X101.15	HSD4	HSD- Ausgang 4
X101.16	CAN2_L	CAN Low 2
X101.17	CAN1_L	CAN Low 1
X101.18	CAN0_H	CAN High 0



X102.01	ANA_1	Analog input 1
X102.02	ANA_2	Analog input 2
X102.03	ANA_3	Analog input 3
X102.04	ANA_4	Analog input 4
X102.05	ANA_5	Analog input 5
X102.06	ANA_6	Analog input 6
X102.07	ANA_7	Analog input 7
X102.08	ANA_8	Analog input 8
X102.09	ANA_9	Analog input 9
X102.10	ANA_10	Analog input 10
X102.11	ANA_11	Analog input 11
X102.12	ANA_12	Analog input 12
X102.13	ANA_13	Analog input 13
X102.14	ANA_14	Analog input 14
X102.15	ANA_15	Analog input 15
X102.16	ANA_16	Analog input 16
X102.17	ANA_17	Analog input 17
X102.18	ANA_18	Analog input 18

X103.01	REL6_NC	normally closed 6
X103.02	REL5_NC	normally closed 5
X103.03	REL5_NO	normally open 5
X103.04	REL4_NC	normally closed 4
X103.05	REL3_COM	common of relay 3
X103.06	REL3_NO	normally open 3
X103.07	REL2_NO	normally open 2
X103.08	REL1_NO	normally open 1
X103.09	REL1_NC	normally closed 1
X103.10	REL6_COM	common of relay 6
X103.11	REL6_NO	normally open 6
X103.12	REL5_COM	common of relay 5
X103.13	REL4_COM	common of relay 4
X103.14	REL4_NO	normally open 4
X103.15	REL3_NC	normally closed 3
X103.16	REL2_COM	common of relay 2
X103.17	REL2_NC	normally closed 2
X103.18	REL1_COM	common of relay 1



Ordering information

Designation	Execution	Order-No.
CAN Gateway module	high-speed	1.042.100.00E
CAN Gateway module	low-speed	1.042.110.00E

Accessoires:

Designation	Order-No.
Starter Kit CAN Gateway module	1.100.110.17
Programming tool MRS Developers Studio	1.100.100.09
PCAN-USB Interface	105358
Cable set CAN Gateway module	109639
Connector package for CAN Gateway module	109637