



CAN Gateway Module





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
Baud Rate	10-kBit/s – 1000-kBit/s, Standard 125-kBit/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 100 Hz / optional to 10 kHz

Characteristics Digital Inputs

Input Voltage	0 to 30 V
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Characteristics Digital Outputs

Load Current	Up to 2.5 A by 80°C
Overload Resistance	

Characteristics Relay Outputs

Performance per relay	3 A
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Programming

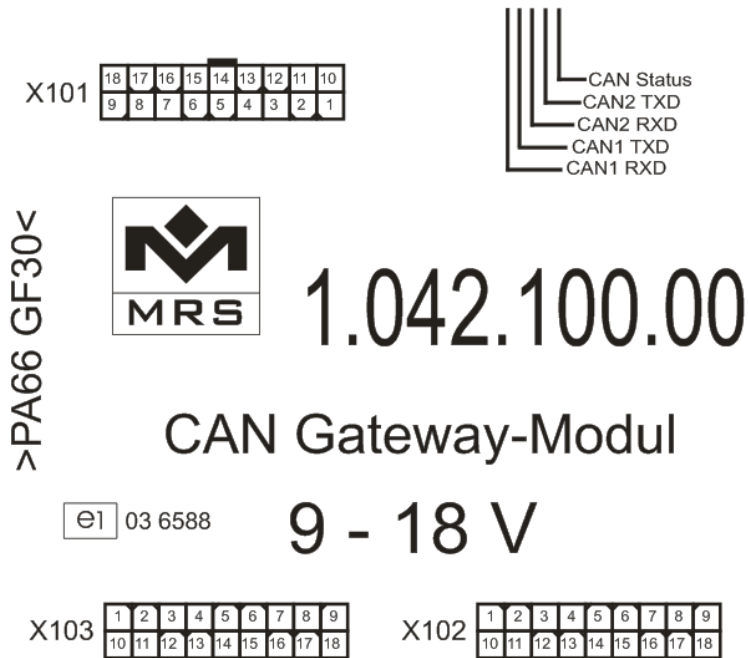
Interface	CAN-bus
Software	MRS Developers Studio with built-in function library, similar programmable like FUP. Customized program components can be integrated into "C-code". Program memory is sufficient for about 300 simple components.

LED Display

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



Connection Assignment



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Connection Assignment

Pin	Signal	Pin Description
X101.01	GND	Mass
X101.02	KL15	Ignition
X101.03	ANA_19	Analog input 0 – 12 V
X101.04	ANA_20	Analog input 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	Ignition
X101.11	BL	Bootloader
X101.12	HSD1	HSD- exit 1
X101.13	HSD2	HSD- exit 2
X101.14	HSD3	HSD- exit 3
X101.15	HSD4	HSD- exit 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

Datasheet
CAN Gateway Module

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Order information

Designation	Execution	Order Number
CAN Gateway module	High-speed	1.042.100.00E
CAN Gateway module	Low-speed	1.042.110.00E

Accessories

Designation	Order Number
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