



# Universal Gateway 5 x CAN





## Technical Data

Construction	Plastic housing with connector
Connector	30-pol. 070 Multilock
Housing Dimensions	95 x 65 x 35 mm
Weight	110 g
Ambient Temperature	- 40 °C to 85 °C
Storage Temperature	- 40 °C to 85 °C
Protection Class	IP54
Operating Voltage U <sub>B</sub>	9 – 30 V
Current Consumption	Max. 200 mA
Protection	1 A + 2 A

## Processor

Manufacturer	Freescale
Processor Type	S912XEP100J5MAG
Clock Frequency	50 MHz
Flash	1000-kByte
Ram	64 k
EEPROM	36 k

## Interfaces

### CAN-bus

According to ISO 11898-3/5	Low/high-speed
Baud Rate	20-kBit/s – 1000-kBit/s Default 125-kBit/s

### RS232 & RS485

Baud Rate	Max. 115-kBit/s
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### Additional interfaces / on request:

High/Low-Speed
LIN bus
Real-Time Clock with Battery (RTC)

## Technical Examination

E1 approval number	047258
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## Possible Inputs and Outputs

Analog Input	1
Frequency Inputs	4
Digital Outputs	4



## Technical Data Inputs and Outputs

### Characteristics of Analog Inputs

Input Voltage	0 – 11.4 V
Resolution	12-bit
Input Resistance	22.68 kΩ
Input Frequency	<100 Hz

### Characteristics of Frequency Inputs

Input Voltage	0-11.3V
Resolution	12-bit
Input Resistance	22.68kΩ
Input Frequency	<10k Hz

### Characteristics of Digital Outputs

Load current	2.5 A/channel
Overload resistance	Electronically protected

## 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.

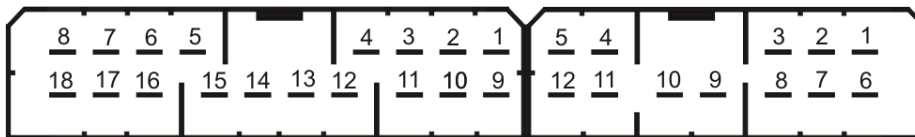
## Connection Assignment

Pin	Signal	Pin Description
1.1	CAN0_H	CAN-bus
1.2	CAN0_L	CAN-bus
1.3	RS485_A	RS485
1.4	GND	Mass
1.5	B+/30	Operating voltage
1.6	CAN1_H	CAN-bus
1.7	CAN1_L	CAN-bus
1.8	RS485_B	RS485
1.9	RS232_TX	RS232
1.10	RS232_RX	RS232
1.11	KL15	Ignition
1.12	ANA0	Analog input
2.1	CAN2_H	CAN-bus
2.2	CAN2_L	CAN-bus
2.3	OUT2	Digital output



2.4	LIN_1	LIN-bus
2.5	SLOT1.0	Slot
2.6	CAN4_H	CAN-bus
2.7	CAN4_L	CAN-bus
2.8	SLOT2.0	Slot
2.9	OUT1	Digital output
2.10	OUT4	Digital output
2.11	OUT3	Digital output
2.12	CAN3_H	CAN-bus
2.13	CAN3_L	CAN-bus
2.14	FREQ_IN_1	Frequency input
2.15	FREQ_IN_2	Frequency input
2.16	FREQ_IN_3	Frequency input
2.17	FREQ_IN_4	Frequency input
2.18	SLOT2.3	Slot

## Connector



## Order Information

Designation	Execution	Order Number
Universal Gateway 5 x CAN		1.057.300.00E

## Accessories

Designation	Order Number
Programming Tool MRS Developers Studio	1.100.100.09
Cable Set Universal Gateway	109260
Connector Package for Universal Gateway	109203
PCAN-USB Interface	105358