

Pioneering new technologies
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ESX-C®

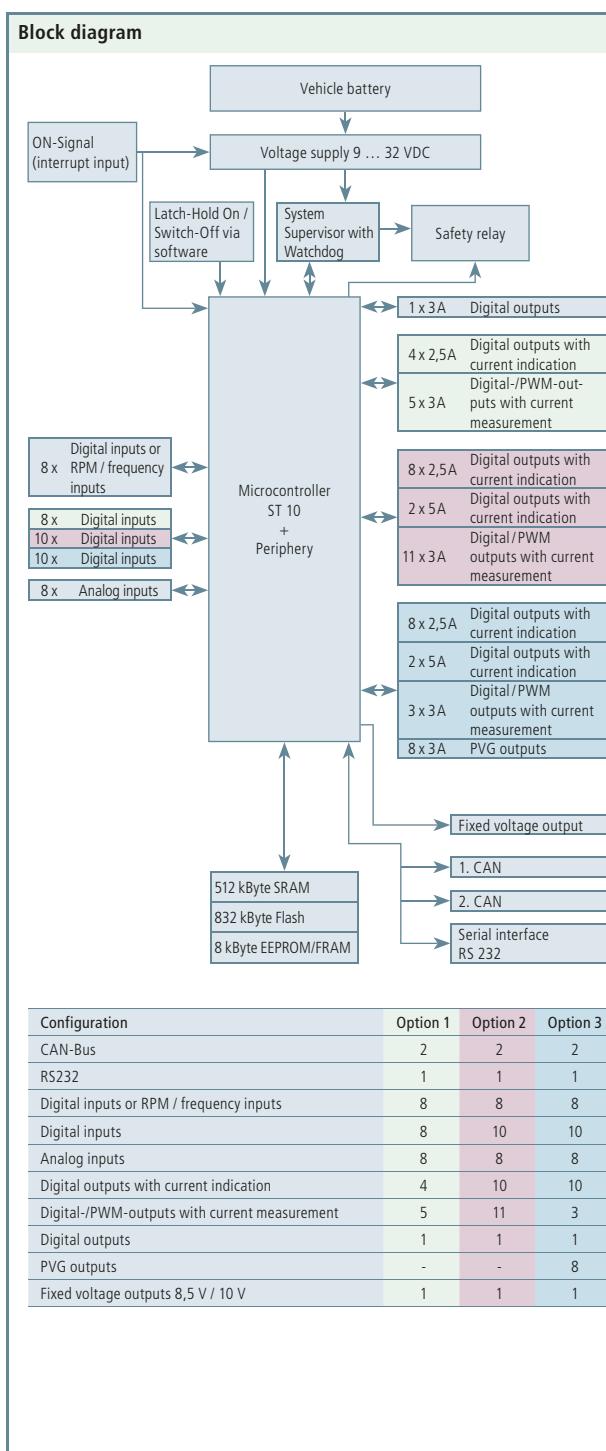


Freely programmable electronic control units
for vehicles and machines with CAN-Bus



ESX®-C - Technical Data

Processor system	
Processor	ST10, 16 bit, $f_{CPU} = 40$ MHz
RAM	512 kByte
Flash	832 kByte
EEPROM/FRAM	8 kByte
Interfaces	
CAN-Bus	2 CAN, 2.0 B (11 bit and 29 bit identifier), low- / high-speed up to 1 Mbit/s
RS232	programmable baud rate (max. 115200 baud)
In-/Outputs (max. 48) short circuit protected	
Digital or RPM inputs	high/low active (software configurable), frequency to 7.2 kHz
Digital inputs	high/low active (software configurable)
Analog inputs	4 ... 20 mA or 0 ... 10 V (software configurable), $10 \text{ bit}, f_{CUTOFF} = 1 \text{ kHz}$
Digital outputs with current indication	high side switch 5 A high side switch 2,5 A
Digital / PWM outputs with current measurement	high side switch 3 A, 0 ... 100 %, clock frequency adjustable from 20 ... 250 Hz, proportional valve drivers
Digital outputs	high side switch 3 A
PVG outputs	(20 % ... 80 % of supply voltage) for driving Danfoss proportional valves
Fixed voltage output	8.5 V or 10 V, stabilized voltage supply, set via software
System data	
Supply voltage	9 ... 32 V DC, operates on vehicle power supply
Current requirements	approx. 0.5 A without load, total current up to 30 A, Stand-by < 1 mA
Mechanical Data	
Connector	68 pin connector, automotive standard, with latch
Chassis	IP65 (opt. IP67), cast aluminum, GORE-TEX® breathing filter for pressure equalization and high moisture protection
Weight	approx. 2 kg
Size	approx. 170 mm x 195 mm x 72 mm (6.69" x 7.68" x 2.83")
EMC, Environmental requirements	
Requirements	certified according to automotive, agricultural and construction industry standards; CE conformity
Operating temperature	-40°C ... +85°C (-40°F to 185°F) chassis temperature
Software	
Assigning of application software	Freely programmable in "C" (high level API- library included) or with CODESYS (IEC61131) Application Libraries and Tool Chain



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