



Expansion boards for ESX.3xm and ESX.3xl

ESX control units

KEY FEATURES

- Modular extension for the ESX.3xm and ESX.3xl controllers
- Create the ESX.3x variant to fit the specific application requirements
- Customer specific expansion boards possible with high variability
- Standard expansion boards available for many different types of inputs, outputs and communication interfaces
- Expansion board with Ethernet and USB available (incl. Power PC and Linux OS)

TECHNICAL DATA

- Individually assignable inputs, outputs and communication interfaces
- All expansion board libraries are included in the ESX.3x software development packages
- Freely programmable with comfortable API interface
- Excellent mechanical robustness (solder/press-fit connection to ESX.3x mainboard)

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OVERVIEW Expansion boards

Safety IO Expansion

Variant	Expansions	Measurement
EB06	10 digital outputs 6 PWM outputs 1 analog output 16 digital or voltage inputs 2 current inputs 2 resistance measurement	high side 0 ... 2 A high side 0 ... 2 A 0 ... 20 mA or 5 ... 10 V 0 ... 40 V 0 ... 20 mA 500 ... 2500 Ω

Different IO-Expansions

Variant	Expansions	Measurement
EB02	12 digital or voltage inputs 1 digital output	0 ... 40 V, 3 x with AB-decoder high side 0 ... 4 A
EB04	12 digital outputs	high side 0 ... 2.5 A
EB04	12 PVG outputs	
EB05	4 digital or voltage inputs 8 PWM outputs	0 ... 40 V high side 0 ... 4 A
EB05	4 digital or voltage inputs 8 PWM outputs	0 ... 40 V high side 0 ... 150 mA
EB08	4 digital or voltage inputs 8 digital outputs	0 ... 40 V low side 0 ... 2.5 A
EB08	4 digital or voltage inputs 8 PWM outputs	0 ... 40 V low side 0 ... 2.5 A
EB09	12 multifunctional inputs 1 analog output	with extensive signal processing: digital or frequency (up to 6 AB-decoder), volt- age 0 ... 40 V or current 0 ... 25 mA 2.0 ... 10.5 V
EB11	6 multi functional inputs 6 analog voltage outputs 1 stabilized sensor supply	voltage 0 ... 5/10/40 V or cur- rent 0 ... 25 mA or resistance 0 ... 6.5 kΩ 0 ... 10 V or current 0 ... 20 mA 75 mA @ 5 V 150 mA @ 10 V

Combined communication and IO-Expansions

Variant	Expansions	Measurement
EB03	4 inputs 2 RS232 1MB Dataflash RTC	digital or voltage 0 ... 40 V
EB03	4 inputs 2 RS485 1MB Dataflash RTC	digital or voltage 0 ... 40 V

Communication Expansion

Variant	Expansions	Measurement
EB10	4 CAN 1 RS232 1 LIN RTC	

Power PC Expansion

Variant	Expansions	Measurement
EB07	Power PC Expansion Linux OS 1 GB Dataflash 1 CAN 1 RS232 1 Ethernet 1 USB RTC	