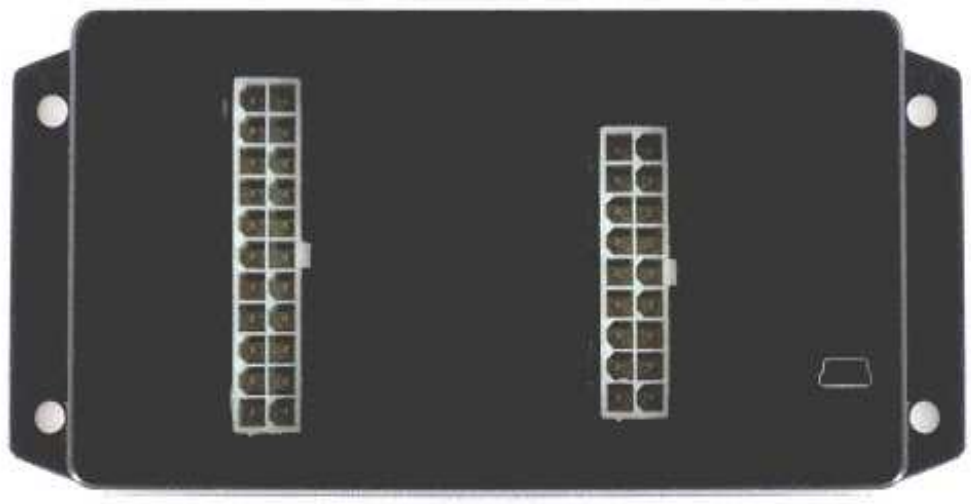
Sheet

8

CanExtender

Extension unit of on-board control or electronic on-board control unit for small dimension machines

CanExtender is a control unit which allows to extend the number of inputs and outputs of an electronic on-board control unit, through a simple CAN-Bus line. CanExtender can also run as an electronic on-board control unit for small dimensions machines.
When designing a new system or upgrading it, very often occurs the need of having a number of power inputs and outputs located near the control unit or in a remote part of the machine. Thanks to CanExtender it is possible to dispose of 8 multifunction digital or analogical inputs and 16 power digital outputs 12-24V / 5A. The 16 power digital outputs can be used in on-off mode as well as in proporzional mode, with pulse width modulation PWM. CanExtender has a small size, allows different kind of configuration between inputs and outputs and can be easily reprogrammed through the USB door. Alone or combined with other CanExtenders or CanExtenders Plus it can carry out the whole management of the machine. The CAN-Bus communication can occur through a proprietary protocol or through SAE J1939 standard.



CanExtender, connectors and Usb door

- 8 multifunction digital inputs 12/24V or 8 analogical inputs (4-20 mA / 0-5 V / 0-36 V) configurable via software.
- 16 power digital outputs 12-24 V, with 5 A max, over-current, over-temperature and short-circuit protected.
- Possibility of managing the 16 power digital outputs in on-off mode as well as in proportional mode, with pulse width modulation PWM.
- Reprogramming through the USB door.
- Power supply designed for automotive systems (8-36V, polarity inversion and load-dump protection).
- CAN-Bus interface (proprietary protocol or SAE J1939).

Working conditions

Operational supply voltage:	**12-24 V**
Operational absorption logic circuit:	**< 0,5A**
Working temperature:	**-20°C - +60°C**
Dimensions:	**150x65x40 mm**

Inputs and outputs

Digital/analogical inputs:	**8**
Power digital outputs 5A max :	**16**

Digital/analogical inputs configurable via software:

Input 0-3:	4-20 mA / 0-5 V / 0-36 V on/off
Input 4-7:	0-5 V on/off

Power digital outputs can be used in on-off mode and in PWM mode

CAN-Bus and communication door

CAN-Bus channel:	**FULL CAN 2.0 A e B**
Protocol standard:	**SAE J1939**
Maximum speed:	**500 Kbit / sec.**
Communication door:	**USB**

Processing

Microprocessorr:	**16 bit**
Operational rate:	**24 MHz**
Flash memory program:	**64 Kbyte**
PL (Performance Level) EN ISO 13849-1:	**C**
SIL (Safety Integrity Level) EN 62061:	**1**
MTBF (Mean Time Between Failures) Siemens SN29500-1 Ground Mobile:	**625,08**



Multiple possibilities of CanExtender

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