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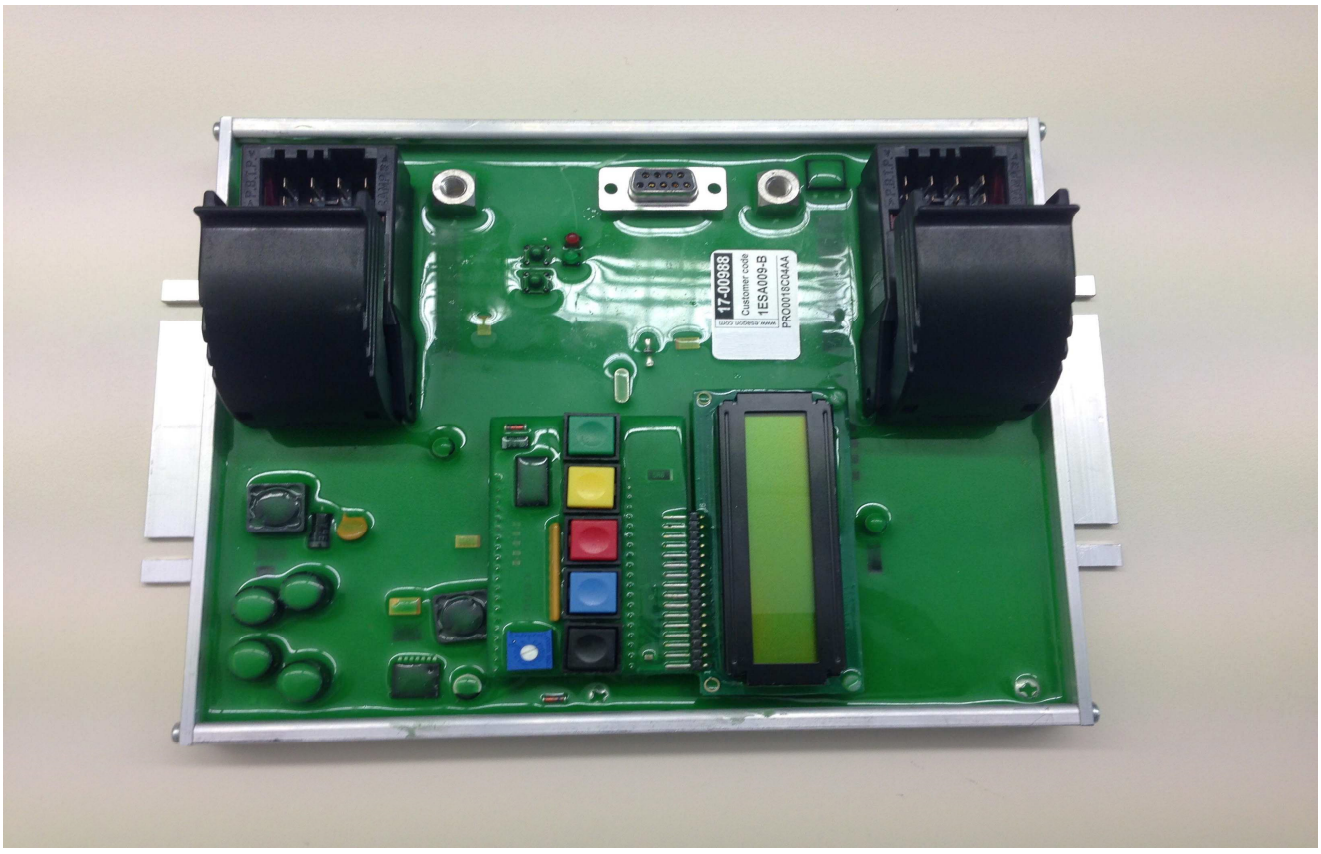
CanBridge Plus

Electronic on-board control unit for big dimension machines

CanBridge Plus is an electronic on-board control unit for big dimension machines, designed to grant a powerful and effective automation, along with reliability. A wide range of inputs and outputs allows to solve almost every kind of needs. Furthermore the possibility of small and customized electronic boards plug-in, for which support the control unit is provided, allows to fit a broad range of applications. Wide range of power supply from 6 to 36 Volts and thus can operate with the battery voltage available on any vehicle. With the standard dressing it has an IP 65 protection degree and thus can operate in free air without any further protection. Compact, sturdy, and reliable, it can be advantageously used whenever it had been suggested the use of an industrial Plc.



CanBridge Plus with diagnostic plug-in

- Operational and user programs totally upgradable.
- I/O hardware logic fully programmable; all the I/O functions are managed by a PLD (Programmable Logic Device).
- Redundancy functions and processor by-pass fully programmable.
- Support for small and customized electronic boards plug-in, to extend hardware functions.
- Control of proportional valves with electric power feed-back.
- Control of analogical potentiometric joysticks with high resolution.
- Analogical ratiometric outputs designed to drive distributors.
- Short-circuit and over-temperature protections on all the outputs.
- Some of the inputs can operate as counting inputs or encoder inputs.
- CAN-Bus interface.
- All of the power digital outputs can be used in on-off mode as well as in proportional mode, with pulse width modulation PWM.
- Integrated level shifter for CAN-Bus channel interfacing on rotating joints.
- Real-time clock.

Working conditions

Operational supply voltage:	**+6V - +36V**
Optional operational supply voltage:	**+4V - +36V**
Operational absorption logic circuit:	**< 0,5A**
Working temperature:	**-20°C - +60°C**
Maximum working temperature:	**-40°C - +105°C**

Inputs and outputs

Digital ratiometric inputs on/off:	**20**
Analogical inputs 10 bit resolution:	**10**
Power digital outputs 5A max:	**12**
Power digital outputs 2,5A max:	**8**
Power digital outputs 7A max:	**2**
Analogical ratiometric outputs 8 bit resolution:	**4**

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

CAN-Bus and comunication doors

CAN-Bus channel:	**FULL CAN 2.0 A e B**
Protocol standard:	**SAE J1939**
Maximum speed:	**500 Kbit / sec.**
Communication door 1:	**RS 232 C**
Maximum data speed:	**19,2 Kbi/sec.**
Communication door 2:	**RS 232 TTL**
Maximum data speed:	**19,2 Kbi/sec.**

Processing

Microprocessor:	**16 bit**
Operatiional rate:	**16 MHz**
Flash memory program:	**128 Kbytes**
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:	**416,89**

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