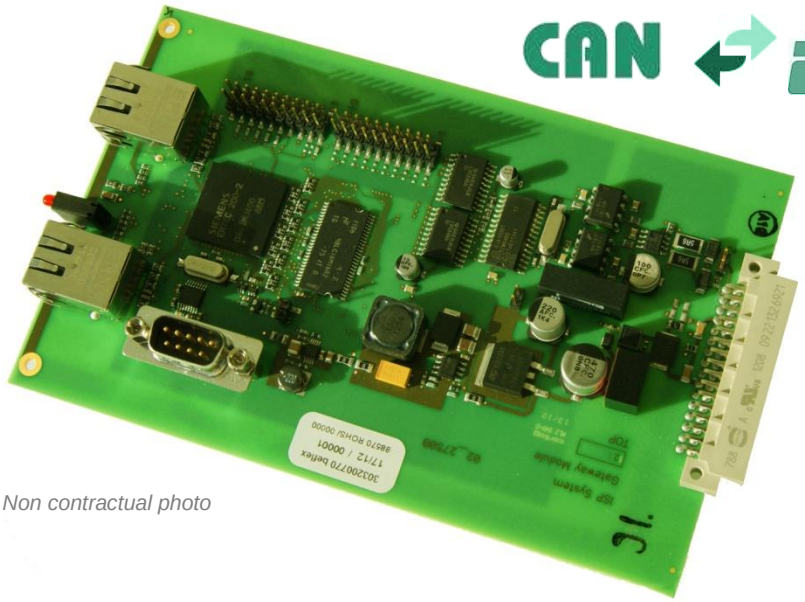
GATEWAY
PROFINET IO - CAN

DATASHEET ISP FDP6C2AMPP / ISP C2AMPP-2C

Update : 27/07/2013



Non contractual photo

1 - Description

Bidirectional interface gateway between PROFINET and bus CAN

To easily connect a set of electronic board which communicate on a bus CANOpen to an industrial network as PROFINET. This enables a reliable management of these equipment at long range by PC or automaton in industrial environments.

Thanks to its scalable structure, we offer customized configuration upon customer's request.

European format compatible to a 19" rack.

2 - Design

Communication:

- Gateway compatible with automaton and configuration tools PROFINET as a standard PROFINET IO device. Integration to SIMATIC through a provided GSDML.
- Based GSDML provided with 12 nodes of 40 bytes inputs and 20 bytes outputs.
- 256 Mbits RAM and 32Mbits flash for a wide customization of the communication management program.
- The data pass through an internal buffer. This allow a bus CANOpen, with a low transmission speed, to communicate with a high speed bus PROFINET.
- On standard: non isochrones operation, mode IRT and RT (upon application).
- Interface CAN/CANOpen compatible with the ISO 11898-2 norm. Transfer speed up to 1Mbits/s
- Bus CAN galvanically insulated of the gateway by optocoupler and insulated DC/DC power supply (GND insulated)

Integration:

- Bus CAN (CAN High and CAN Low + GND) with power supply 24VDC by backplane (connector DIN41612)
- Front : Connexion PROFINET g
- fit on 19" racks

3 - Applications

Adaptation of communicating products on bus Can system to an industrial system through a PROFINET network.

Integrate a motor electronic control, of encoder acquisition to a PROFINET network.

4 - Linked products

ISP09R029FPI0065B: Driven Rack 12 stepper Motors with encoder reading
Incremental or absolute ENDAT 2.2 – driven by PROFINET

5 - Technical specificatio

CHARACTERISTICS *(without options)*	VALUES
Size	European size rackable 100 x 160 mm
Power supply	24 VDC / 100mA (18-32VDC)
Operation temperature	0 – 55°C
Connection backplane	· DIN 41612 / Type B / 2x16 pins · Power supply GND / 24V · Link CAN : CAN-High and CAN-Low
Connection PROFINET on front	1x RJ45 (2 ports available)
CAN Controller	SJA 1000
Ethernet Controller	ERTEC 200
Memory	RAM : 256 Mbits / Flash : 32 Mbits
CAN transmission speed	20 kbit/s - 1 Mbit/s
PROFINET IO transmission speed	100Mbit/S, full duplex
Inputs/ Outputs PROFINET IO	· 256 octets Inputs · 256 octets Outputs

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