

Inter Control digsy[®] ICN-D32 I/O module

The digsy[®] ICN-D32 serves as a local interface module which has been developed especially for the use in a cockpit. It offers a high number of inputs and outputs whose specification fits perfectly to the requirement of a vehicles dashboard. As the basis of this CAN-node is a 16-bit microcontroller, optional data preprocessing is possible. This results in the fact that the dashboard-node is an incredible flexible I/O-device with an optimal price/performance ratio which can also be used as low-cost stand-alone controller (OEM version).

Technical features

Configurable inputs

- 8 digital inputs
- 6 analog inputs, 0 V - 10 V, separately configurable as digital inputs
- 2 analog inputs, 0 mA to 20 mA
- 4 counter inputs, separately configurable as digital inputs or as 2x AB-counter inputs

Configurable outputs

- 4 PWM-outputs, max. 4 A, separately configurable as digital outputs or digital inputs
- 4 digital outputs, max. 1 A, separately configurable as digital inputs
- 2 reference voltage sources, 5 V, 7,5 V, 8,2 V, 10 V
- 2 current outputs, 10 mA, max. load 300 Ω

CAN interface

- Physical layer according to EN 11898 (high speed bus)
- CANopen-protocol
- Integrated CAN T-connector
- Bit-rates: 20 kbit/s to 1 Mbit/s

General

- Size: 150 mm x 90 mm
- Protection according to IP30

Common features of the digsy ICN product family

- Power supply 8 to 32 V (12 V and 24 V on board voltage)
- Protection against load dump and over voltage
- Protection against reverse polarity
- Outputs are protected against short circuit and overload
- Outputs can be connected in parallel
- Suitable for mobile applications
- Ambient operating temperature: -40 °C to +85 °C
- Shock and vibration proof
- EMC proof

Contact

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Features

NMT	NMT slave
Error control	Node guarding Life guarding Heartbeat producer Heartbeat consumer: 1
Boot-up	Yes
Node ID range	From 1 to 127
Node ID	Hardware switch Proprietary
CANopen bit-rates	

	20 kbit/s 50 kbit/s 125 kbit/s 250 kbit/s 500 kbit/s 800 kbit/s 1 000 kbit/s
Type of bit-rate adjustment	Hardware switch (local interface)
RPDOs	4
TPDOs	5
PDO modes	Event-triggered Triggered by event-timer Synchronous (cyclic) Synchronous (acyclic)
PDO linking	Yes
PDO mapping	Static
SDO server	1
SDO client	No
Emergency producer	Yes
Emergency consumer	1 message(s)
Sync producer	Yes
Sync counter	No
Time stamp	No
Additional functions	Self-starting device
CANopen version	CiA 301 V 4.0.2
Frameworks	CiA 302
Device profiles	CiA 401: CANopen device profile for generic I/O modules
Certified	No
Availability	In stock