

Field-bus box I/O modules

Miniature field-bus modules for in-the-machine applications.

The Beckhoff IP67 system consequently continues the field-bus idea:

- **Rugged** - remote I/Os directly in-the-machine, without an enclosure
- **Watertight** - with protection class IP67 and full potting ideal for wet, dirty and dusty industrial environment
- **Small** - extremely small footprint, needs almost no space in the machine
- **Open** - all important field-bus protocols are supported
- **Modular** - free mix of signals with extensions
- **Fast wired** - with premoulded cord sets
- **Flexible** - also field wireable connectors available
- **Very reasonable** - low system costs due to fine granularity

The sensors and actuators are connected with snap-type 8 mm connectors or screw type M8 or M12 connectors. IP Link, the fibre optic extension bus, connects low cost extension modules and enables one to wire several distributed IP67 modules with one field-bus node.

The CANopen IP67 modules come with the well proven CANopen firmware known from the Beckhoff IP20 product line (DIN-rail mounted block I/O):

- Full CANopen functionality with variable mapping, all PDO transmission types supported, boot up message and comprehensive diagnosis via Emergency message.
- Auto bit-rate detection for 10, 20, 50, 100, 125, 250, 500, 800, 1 000 kbit/s.
- Parameters can be stored in non volatile memory.
- Smart PDO triggering through delta functions and limit value settings for analogue inputs.
- Flash upgradeable firmware gives easy access to new features.
- Additional interface for configuration on board.

www.beckhoff.com/Field-busBox

www.beckhoff.com/IPxxx-B510

Contact

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Beckhoff Automation GmbH

Eiserstr. 5
DE-33415 Verl

Email: info@beckhoff.com
Phone: +49-5246-963-0
Fax: +49-5246-963-198
Web: <http://www.beckhoff.com>

Technical contact

Beckhoff Automation GmbH
Office Nuremberg
Martin Rostan
Ostendstr. 196
DE-90482 Nuremberg

Phone: +49-911-5405611
Fax: +49-911-5405629
Email: nuernberg@beckhoff.com

Austria

Beckhoff Automation GmbH
Hauptstr. 4
AT-6706 Bürs

Phone: +43-5552-688130
Fax: +43-5552-6881318
Email: info@beckhoff.at
URL: www.beckhoff.at

China

Beckhoff Automation (Shanghai) Co., Ltd.
5th Floor, No. 163 Jiang Chang San Road
Shanghai Shibei Industrial New Zone
CN-200436 Shanghai

Phone: +86-21-6631-2666
Fax: +86-21-6631-5696
Email: info@beckhoff.com.cn
URL: www.beckhoff.com.cn

Finland, Estonia

Beckhoff Automation Oy
P.O. Box 23
Kankurinkatu 4-6
FI-05801 Hyvinkää

Phone: +358-20-7423800
Fax: +358-20-7423801
Email: info@beckhoff.fi
URL: www.beckhoff.fi

Italy

Beckhoff Automation S.r.l.
Via E. Majorana, 1
IT-20054 Nova Milanese, MI

Phone: +39-03-62-365164
Fax: +39-03-62-40990
Email: info@beckhoff.it

URL: www.beckhoff.it

Poland

Beckhoff Automation SP.z.o.o.
Stara Iwiczna, ul. Sloneczna 116A
PL-05500 Piaseczno

Phone: +48-22-7572610
Fax: +48-22-7572607
Email: info@beckhoff.pl
URL: www.beckhoff.pl

Russia

Beckhoff Automation OOO
Ul. Bakuninskaya 14, Building 9
RU-105005 Moscow

Phone: +7-495-981-6454
Fax: +7-495-981-6454
Email: russia@beckhoff.com
URL: www.beckhoff.ru

Sweden, Norway

Beckhoff Automation AB
Stenådersgatan 2B
SE-21376 Malmö

Phone: +46-40-6808160
Fax: +46-40-6808161
Email: info@beckhoff.se
URL: www.beckhoff.se

Switzerland

Beckhoff Automation AG
Rheinweg 9
CH-8200 Schaffhausen

Phone: +41-52-6334040
Fax: +41-52-6334055
Email: schaffhausen@beckhoff.ch
URL: www.beckhoff.ch

USA, Canada, Mexico

Beckhoff Automation LLC
12150 Nicollet Avenue South
US-55337 Burnsville, MN

Phone: +1-952-8900000
Fax: +1-952-8902888
Email: beckhoff.usa@beckhoff.com
URL: www.beckhoffautomation.com

Features

NMT	NMT slave
Error control	Node guarding Heartbeat producer
Boot-up	Yes
Node ID range	None
Node ID	No
CANopen bit-rates	n/a
Type of bit-rate adjustment	None
RPDOs	16
TPDOs	16
PDO modes	Event-triggered Triggered by event-timer Synchronous (cyclic) Synchronous (acyclic)
PDO linking	Yes

PDO mapping	Variable
SDO server	1
SDO client	No
Emergency producer	Yes
Emergency consumer	No
Sync producer	No
Sync counter	No
Time stamp	No
Additional functions	None
CANopen version	CiA 301 V 4.1
Frameworks	None
Device profiles CiA 401: CANopen device profile for generic I/O modules	
Certified	Yes
Availability	In stock