



IPC/DIO8

The IPC/DIO8 Series brings digital inputs and outputs to the Syslogic embedded products. According to the customers needs, isolated digital inputs and outputs can be used as a standalone unit or directly build in an embedded Syslogic system. Together this offers a flexible, low power I/O extension at lowest cost.

- **Extended temperature range**
- **24/7 continuous operation**
- **4 digital inputs**
- **up to 4 digital outputs**
- **Galv. isolation**



Product Highlights

Low Power
 Fan less design
 Industrial design
 Operating temperature -40°C to +85°C
 Galvanic Isolation
 Long term availability

Product Feature

4x 24V digital inputs
 4x 24V digital outputs
 USB or I2C data interface
 Compact dimensions
 DSUB9 or Terminal Block connection

Markets / Applications

Industrial automation
 Railway industry
 Transportation and vehicle construction
 PLC replacement
 Cleantech
 Maritime

	Order Code	IPC/DI403D-101E ¹	IPC/DI404T101E ¹
Digital inputs			
Digital current sinking 24VDC inputs		4	4
Input "0"		0 ... +5VDC	0 ... +5VDC
Input "1" (max. 5mA)		+10 ... +45VDC	+10 ... +45VDC
Input frequency		0 - 2kHz	0 - 2kHz
Galvanic isolation (process to Logic)		1500Vrms	1500Vrms
Digital outputs			
Digital current sourcing 24VDC outputs (high side switch)		3	4
Process voltage		10 ... 45VDC	10 ... 45VDC
Channel output current (600mA / channel when all channel "on")		1A	1A
Output current per group		2.4A	2.4A
Transient overvoltage protection		600W	600W
Overload and short circuit protection		•	•
Automatic thermal overload shutdown		•	•
Galvanic isolation (process to Logic)		1500Vrms	1500Vrms
Communication Interfaces			
Process Interface Connection		DSUB9 male	2x5 Pin Terminal Block
Mating plug type for process interface connection		any DSUB9 female	Weidmüller B2CF 3.5/10/180F SN BK
USB 2.0 interface (to host computer) ²		•	•
I2C interface (to additional Syslogic I/O extensions) ³		•	•
Technical Data			
Dimensions W x D x H [mm]		89 x 32 x 15	89 x 32 x 15
Net weight [gram]		42	42
Input voltage 5VDC non-isolated (over USB)		•	•
Power consumption typ. in Watt @ 5V		0.5	0.5
Software support			
Linux Kernel 2.4.x or higher		•	•
Windows Embedded Standard 7		•	•
Windows 10 IoT		•	•
Environmental Conditions			
Operating temperature (ambient) -40°C to +85°C		•	•
Storage temperature -40°C to +85°C		•	•
Conformal coating		optional	optional
Shock: designed to meet EN60068-2-27		•	•
Vibration: designed to meet EN60068-2-6		•	•
EMI conformity EN55022/55024/61000-6-2/61000-6-4		•	•
MTBF ~ 200 000h @ 25°C (22.8 years)		•	•

¹ Please contact factory for minimum order quantities

² on internal connector | Mating plug type: Molex Pico-Lock 504051-0401 with AWG24 contacts 504052-0098

³ on internal connector | Mating plug type: Molex Pico-Blade 51021-400 with AWG26 contacts 50079-8100

Product specifications subject to change without notice. | All data is for information purposes only and not guaranteed for legal purposes. Information in this data sheet has been carefully checked and is believed to be accurate. However, no responsibility is assumed for inaccuracies. Please refer to the user documentation for additional product specification.

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industrial computing