



**Product ID:** IPex04

**Category:** Controller and Accessories

Controller and hardware Gateway for electrical boards with 4 I/O and different communication interfaces. Data Exchange by MQTT or HTTP

## TECHNICAL SPECIFICATIONS

<b>CPU</b>	MIPS microcontroller 32bits@64MHz with 512KB Flash, 128KB RAM
<b>Memory</b>	Dataflash of 4 MB for data storage EEPROM of 128 KB for configuration data
<b>Real time clock</b>	External with battery
<b>ADC</b>	ADC 12 bits multiplexed to the 4 I/O
<b>Watchdog timer (WDT)</b>	Internal Watchdog included. External Watchdog available with the IPexCHD
<b>Device configuration</b>	Basic configuration with the embedded web server
<b>Firmware updates</b>	Through the embedded web server
<b>LED indicators</b>	3 status LEDs (System supply, Ethernet and System active)
<b>Communication protocols</b>	MQTT or HTTP by REST API

## I/O AND COMMUNICATIONS PORTS

<b>I/O</b>	4 configurable I/O by software such as: digital outputs, digital inputs (end of line checking available), analog inputs (by supply or current) and analog outputs (range 0-10V) Analog input range is configurable by software such as: 0-500mV, 0-1V, 0-1.25V, 0-2.5V, 0-5V, 0-10V, 0-20mA, 4-20mA
<b>Additional I/O</b>	Not permitted. See model IPex16
<b>Communications ports</b>	2 x RS-232 1 x RS-485 Ethernet 10/100Mbps

<b>Additional communications ports</b>	Red GSM/GPRS (with the IPex3G device) RF 802.15.4g (with the IPexRF device)
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<b>Analog input calibration</b>	All of the analog inputs can be calibrated from the embedded web server configuration
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<b>I/O protections</b>	The 4 I/O are protected against incorrect wiring with the I/O configuration and the following restrictions: Max. supply for I/O: Supply voltage (12-24VDC) Max. Output current: 100mA
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## SUPPLY CIRCUIT

<b>Supply voltage</b>	12-24VDC
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<b>Maximum consumption</b>	<1,5W
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<b>Alternative supply systems</b>	For systems that require a continuous supply, there is a 6/12V battery available to be included with the IPexCHD device
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## ENVIRONMENTAL CONDITIONS

<b>Working temperature</b>	-25° ~ 85°C
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<b>Humidity</b>	5% ~ 95% % (without condensation)
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## INFORMATION ABOUT ORDERS

<b>Minimum order</b>	1
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<b>Order reference</b>	IPex04
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<b>Accessories</b>	IPexCHD, IPex3g, IPexRF
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## CONSTRUCTION FEATURES

<b>Dimensions</b>	52x90x58mm (W/H/D)
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<b>Box material</b>	Plastic
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<b>Tipo montaje</b>	DIN Rail
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<b>Degree of protection</b>	IP20
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## CERTIFICATES AND DECLARATIONS

<b>Rules</b>	EN 61000-6-2:2019 EN 61000-6-3:2007 + A1:2011
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This product is compatible with RoHS (2011/65/UE)