



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

TECHNICAL SPECIFICATIONS

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

I/O AND COMMUNICATIONS PORTS

I/O	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
Additional I/O	Not permitted. See model IPexI6
Communications ports	2 x RS-232 1 x RS-485 Ethernet 10/100Mbps
Additional communications ports	Red GSM/GPRS (with the IPex3G device) RF 802.15.4g (with the IPexRF device)
Analog input calibration	All of the analog inputs can be calibrated from the embedded web server configuration
I/O protections	The 4 I/O are protected against incorrect wiring with the I/O configuration and the following restrictions: Max. supply for I/O: Supply voltaje (12-24VDC) Max. Output current: 100mA

SUPPLY CIRCUIT

Supply voltage 12-24VDC

Maximum consumption <1,5W

Alternative supply systems

For systems that require a continuous supply, there is a 6/12V battery available to be included with the IPexCHD device

ENVIRONMENTAL CONDITIONS

Working temperature -25° ~ 85°C

Humidity 5% ~ 95% (without condensation)

Degree of protection IP20

INFORMATION ABOUT ORDERING

Minimum order 1

Order reference IPex04

Accessories: IPexCHD, IPex3G, IPexRF

CONSTRUCTION FEATURES

Dimensions 52x90x58mm (W/H/D)

Box material Plastic

Installation type DIN Rail

CERTIFICATES AND DECLARATIONS

Rules

EN 61000-6-2:2005
EN 61000-6-3:2007 +
A1:2011



This product is compatible with RoHS (2011/65/UE)