



Product ID: IPex16

Category: IP Controller and Accessories

Controller and hardware Gateway for electric boards with 16 I/O and different communication interfaces. Data Exchange using MQTT or HTTP.

TECHNICAL SPECIFICATIONS

CPU	MIPS microcontroller 32bits@64MHz with 512Kb Flash, 128Kb RAM
Memory	Dataflash of 4Mb for data storage (2Mb available to the user) EEPROM of 128KB for configuration data
Real time clock	External with a battery
ADC	ADC 14 bits multiplexed to the 16 I/O
Watchdog timer (WDT)	Internal Watchdog available. External Watchdog by use of a IPexCHD
Device configuration	Basic configuration available by use of an embedded web server
Firmware updates	Remote firmware updates
LED indicators	3 status LEDs (System supply, Ethernet and System active)
Communication protocols	MQTT or HTTP through REST API

I/O AND COMMUNICATIONS PORTS

I/O	16 I/O configurable through software such as: digital outputs, digital inputs (end of line checking available), analog inputs (through voltage or current) and analog outputs (range 0-10V) Range of analog inputs configurable through software such as: 0-500mV, 0-1V, 0-1.25V, 0-2.5V, 0-5V, 0-10V, 0-20mA y 4-20mA
Additional I/O	Possibility of increasing the amount of I/O through the slave device IPex16/s up to 8 additional increases (128 additional I/O)

Communications ports	3 x RS-232 1 x RS-485 1 CAN Bus 2.0B 1 USB Host 2.0 1 Ethernet 10/100Mbps
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Additional communications ports	GPRS/NB-IoT Network (with the IPex3G device) RF 802.15.4g (with the IPexRF device)
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Calibration of analog inputs	All of the analog inputs can be calibrated by use of the embedded web server configuration
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The 16 I/O are protected against incorrect wiring with the configuration of the I/O and the following restrictions:

Protection of the I/O	Max. supply in I/O: Supply voltage (12VDC) Max. output current: 100mA
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SUPPLY CIRCUIT

Supply voltage	12V
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Maximum consumption	<1,6W
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Alternative supply systems	For systems that need a continuous supply, a 12V battery can be included that is controlled by the charger device IPexCHD
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ENVIRONMENTAL CONDITIONS

Working temperature	-25° ~ 85°C
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Humidity	5% ~ 95% (without condensation)
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INFORMATION ABOUT ORDERS

Minimum order	1
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Order reference	IPex16/M (master) IPex16/S (slave)
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Accessories	IPexCHD, IPex3g, IPexRF
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CONSTRUCTION FEATURES

Dimensions	160x90x58mm (W/H/D)
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Box material	Plástico
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Installation type	Carril DIN
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Degree of protection	IP20
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Weight	231g
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CERTIFICATES AND DECLARATIONS

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