



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
Additional communications ports	GPRS/NB-IoT Network (with the IPex3G device) RF 802.15.4g (with the IPexRF device)
Calibration of analog inputs	All of the analog inputs can be calibrated by use of the embedded web server configuration
Protection of the I/O	The 16 I/O are protected against incorrect wiring with the configuration of the I/O and the following restrictions: Max. supply in I/O: Supply voltage (12VDC) Max. output current: 100mA

SUPPLY CIRCUIT

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

ENVIRONMENTAL CONDITIONS

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

INFORMATION ABOUT ORDERS

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

CONSTRUCTION FEATURES

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

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)