**IPSES S.r.l.**

Scientific
Electronics


# IPSES I/O CARDS

Input/output cards with digital and/or analogical inputs and outputs and USB, Ethernet, WiFi, CAN or RS232 interface

IPSES input/output cards are the right answer to acquire digital and analogical signals and to control digital or analogical outputs from a PC in an industrial environment.

IPSES I/O cards allows to monitor and to control in real-time the status of each input and output which can be read at any time from PC and, in case of digital I/O, it also shows by LEDs mounted directly on the board.

All the analogical I/O are calibrated one by one, so to guarantee the maximum of precision and resolution. Beside, to improve their reliability and quality, the cards have all the digital inputs and outputs galvanically isolated to protect them and to reduce electromagnetic noises that may arrive.

Through the use of USB, Ethernet, WiFi, CAN or RS232 interfaces, our I/O cards can be integrated into any environment, using the client's resources already available and guaranteeing high speed, hardware independence and maximum of flexibility in the number of connected cards.

The boards are low or standard European Format card size (100 x 160 mm - 3,94 x 6,30 inches) so that they can be easily integrated and, on request, can be furnished mounted on a DIN rail.

All IPSES I/O cards are provided with a driver and a software for all Windows environments.

On request, IPSES develops fully customized I/O cards and control software based on client's specifications.

## IO-69: Input/output Card with 6 inputs and 9 relay outputs and USB interface

IO-69-USB is a self-powered card to manage six optocoupled inputs and nine relay outputs with USB interface.
A timeout control allows to protect the connecting devices, turning off all the outputs if it does not receive commands from the host within a time configurable through software.
Furthermore, there is the possibility to program all the outputs so that each one will activate only when inputs reach assigned conditions: in this case, IO- 69 acts like a programmable logic controller (PLC).
The card is produced in two versions: with single pole double throw relay (SPDT) and with single pole single throw relay (SPST).

General technical features:

Power supply: selfpowered thorugh USB
Working temperature: from 0°C up to + 60°C
Storage temperature: from -40°C up to + 85°C
Size: European format card (100 x 160 mm - 3,94 x 6,30 inches)

USB port technical features:
1 type B port, compatible with USB 2.0, autonomously powered for the host connection

Timeout control to turn off all the outputs if it does not receive commands from the host within a time configurable through software.

Technical features of inputs:
Number of inputs: six
Operative Voltage: independently selectable for each input at 5V/12V/24V (DC)
Protection: optocouplers with 2.500$V_{RMS}$ maximum operative voltage Connectors: pitch terminal block

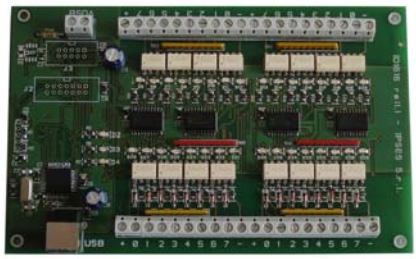
Technical features of outputs:
Number of outputs: nine
*SPDT version:*
- Type: relay single pole double throw
- Max switching current: 0,25A
- Max carrying current: 0,5A
- Max switching voltage: 70$V_{AC}$/100$V_{DC}$, potential free
- Max contact resistance: 200mΩ

*SPST version:*
- Type: relay single pole single throw
- Max switching current: 0,5A
- Max carrying current: 1A
- Max switching voltage: 100$V_{AC/DC}$, potential free
- Max contact resistance: 150mΩ

Isolation voltage between coil and contacts: 500$V_{DC}$.
Connectors: pitch terminal block

Possibility to connect directly to an host port up to 256 cards for a maximum of 1.536 inputs and 2.304 outputs.

## IO-1616: Input/output Card with 16 inputs and 16 outputs and USB or RS232 interface



IO1616 is a self-powered card to manage sixteen optoisolated inputs and sixteen optoisolated outputs with USB interface. The model is available also with RS232 interface, in this case the card needs external power supply.
IO1616 can be directly connected to PLC, to input devices from operator and to other I/O systems. the status of each input
On request, an integrated temperature sensor allows to know in real time the temperature of the system IO1616 is placed in.

General technical features:

Power supply: self-powered through USB or, for model with RS232 interface, external from 7$V_{DC}$ up to 30$V_{DC}$
Working temperature: from 0°C up to + 60°C
Storage temperature: from -40°C up to + 85°C
Size: European format card (100 x 160 mm - 3,94 x 6,30 inches)

USB port technical features:
1 type B port, compatible with USB 2.0, autonomously powered for the host connection

Possibility to connect directly to an host port up to 128 cards, cards for a maximum of 2.048 inputs and 2.048 outputs.

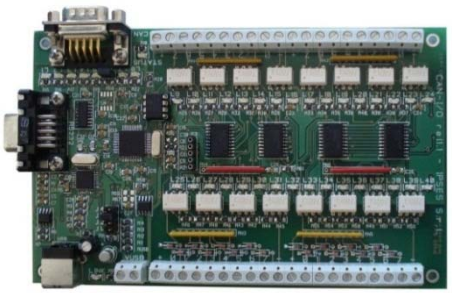
Timeout control to turn off all the outputs if it does not receive commands from the host within a time configurable through software.

Temperature sensor technical features:
Resolution: 0,0625°C
Accuracy: from ±1°C to ±3°C, depending on temperature range.

Technical features of inputs:
Number of inputs: sixteen
Operative voltage: from 3,3$V_{DC}$ up to 36$V_{DC}$
Max current absorbed: 10mA (on each input)
Input impedance: ≈ 2.5KΩ
Logic low level: < 1V
Logic high level: > 2.5V
Port read average time execution: 15 ms
Protection: optocouplers with 2.500$V_{RMS}$ maximum operative voltage
Connectors: pitch terminal block

Technical features of outputs:
Number of outputs: sixteen
Operative voltage: from 3,3$V_{DC}$ up to 36$V_{DC}$
Maximum current: 150 mA
Protection: optocouplers with 2.500$V_{RMS}$ maximum operative voltage
Connectors: pitch terminal block

## CAN-IO: Input/output Card with 16 inputs and 16 outputs with CAN, USB and RS232 interface



CAN-IO is a control unit equipped with CAN, USB and RS232 interfaces to manage sixteen optocoupled inputs and outputs. The card can work as standalone device on CAN BUS. Its configuration is achieved either through USB (in this case the board is self-powered) or through RS232 interface. Easy to use and to configure, thanks to the provided software, CAN-IO is the right answer to the need to acquire and to drive digital signals through already existing CAN bus.
CAN-IO can be directly connected to PLC, to input devices by operator and to other I/O systems.
Each input and output status can be read by a field bus at any moment. Besides, thanks to LEDs fixed on, the status is shown directly on the board. An integrated temperature sensor allows to know in real time the temperature of the system CAN-IO is placed in.

General technical features:

Power supply: self-powered through USB or +5$V_{DC}$ in stand-alone mode
Working temperature: from 0°C up to + 60°C
Storage temperature: from -40°C up to + 85°C
Size: European format card (100 x 160 mm - 3,94 x 6,30 inches)
Interfaces toward PC: 1 USB port,1 RS232 port

CAN port technical features:
Configurable in high-speed or low-speed mode.
Customizable baudrate (up to 1MB/s).
Customizable address (standard or extended frame).
Consistent with standard CAN 2.0B Active Specification
DB9 male connector

USB port technical features:
1 type B port, compatible with USB 2.0, autonomously powered for the host connection

Technical features of inputs:
Number of inputs: sixteen
Operative voltage: 36$V_{DC}$
Logic low level: < 1V
Logic high level: > 2.5V
Input impedance: ≈ 2.5KΩ
Max absorbed current on each input: 10mA
Protection: optocouplers with 2.500$V_{RMS}$ maximum operative voltage
Connectors: pitch terminal block

Technical features of outputs:
Number of outputs: sixteen
Operative voltage: from 3,3$V_{DC}$ to 36$V_{DC}$
Max open collector current: 150mA
Protection: optocouplers with 2.500$V_{RMS}$ maximum operative voltage
Connectors: pitch terminal block

Temperature sensor technical features:
Resolution: 0,0625°C
Accuracy: from ±1°C to ±3°C, depending on temperature range.

## WEB-IO: Input/output Card with 16 inputs and 16 outputs, Ethernet interface, integrated web, telnet and SNMP servers and SMTP client.


WEB-IO is a card to manage sixteen optocoupled inputs and sixteen optocoupled outputs with Ethernet interface, equipped with a web, a telnet and an SNMP servers, and an SMTP client. The web server allows to connect and to manage the card using any web browser (i. e. Internet Explorer or Firefox), with no needs to install a software on your PC. Besides, the card can be connected directly to a switch or to a router with no need to use a PC. It is also possible to develop a customized software managed by telnet service or SNMP client. The SMTP client allows to send alert email based on inputs status change events.
WEB-IO can be directly connected to PLC, to input devices from operator and to other I/O systems. Each input and output status can be read by a web browser or a telnet client at any moment, besides it is shown directly on the board thanks to LEDs fixed on. On request, the card can be equipped with an integrated temperature sensor which allows to monitor in real time the temperature around the regulator voltage module. Through expansion connectors the card can be interfaced to a RTCLOG (Real Time Clock and Logger) optional module: by this way, it can perform a log of the I/O states on a dedicated memory.
WEB-IO is available also in box version, it is provided with a demo software for Windows environment, based on telnet service.

General technical features:

Power supply: external, from 5$V_{DC}$ up to 32$V_{DC}$
Working temperature: from 0°C up to + 60°C
Storage temperature: from -40°C up to + 85°C
Size: European format card (100 x 160 mm - 3,94 x 6,30 inches)
Max thickness: 20 mm (30 mm with RTCLOG module)
RTCLOG module interface: 2 expansion dedicated connectors
Ethernet interface: 1 Ethernet RJ45 port

Supported protocols:
*Telnet*: the card can work as telnet server

HTTP: the card can work as WEB server
SNMP: the card can work as SNMP server
SMTP: the card can work as SMTP client

Temperature sensor technical features:
Resolution: 0,0625°C
Accuracy: from ±1°C to ±3°C, depending on temperature range.

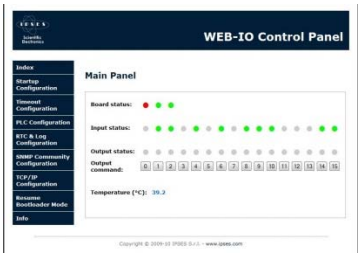
Technical features of inputs:
Number of inputs: sixteen
Operative voltage: from 3,3$V_{DC}$ to 36$V_{DC}$
Max absorbed current on each input: 10mA
Logic low level: < 1V
Logic high level: > 2.5V
Input impedance: ≈ 2.5KΩ

Livello logico *high*: > 2.5V
Protection: optocouplers with 2.500$V_{RMS}$ maximum operative voltage
Connectors: pitch terminal block

Technical features of outputs:
Number of outputs: sixteen
Operative voltage: from 3,3$V_{DC}$ to 36$V_{DC}$
Max open collector current: 150mA
Protection: optocouplers with 2.500$V_{RMS}$ maximum operative voltage
Connectors: pitch terminal block

Timeout control to turn off all the outputs if it does not receive commands from the host within a time configurable through software.

Available also in box version with connection for DIN rail




## WEB-IO-WiFi: Input/output Card with 16 inputs and 16 outputs, Ethernet and WiFi interfaces, integrated web, telnet and SNMP servers

WEB-IO-WiFi is a card to manage sixteen optocoupled inputs and sixteen optocoupled outputs with Ethernet and WiFi interfaces, equipped with a web, a telnet and an SNMP servers. The web server allows to connect and to manage the card using any web browser (i. e. Internet Explorer or Firefox), with no needs to install a software on your PC. Besides, the card can be connected directly to a switch or to a router, by this way it can be accessed by any PC connected to Internet. It is also possible to develop a customized software managed by telnet service or SNMP protocol. The board is available with built-in antenna or with ultra-miniature coaxial (U.FL) connector for external antenna connection.
WEB-IO-WiFi can be directly connected to PLC, to input devices from operator and to other I/O systems. Each input and output status can be read by a web browser or a telnet client at any moment, besides it is shown directly on the board thanks to LEDs fixed on. On request, the card can be equipped with an integrated temperature sensor which allows to monitor in real time the temperature around the regulator voltage module.

General technical features:

Power supply: external, from 5$V_{DC}$ up to 32$V_{DC}$
Working temperature: from 0°C up to + 60°C
Storage temperature: from -40°C up to + 85°C
Size: European format card (100 x 160 mm - 3,94 x 6,30 inches)
Max thickness: 20 mm
Ethernet interface: 1 Ethernet RJ45 port

Timeout control to turn off all the outputs if it does not receive commands from the host within a time configurable through software.

Supported protocols:
*Telnet*: the card can work as telnet server
HTTP: the card can work as WEB server
SNMP: the card can work as SNMP server

WiFi technical features:
*Standard* WiFi (2,4GHz) 802.11b or 802.11g.
WEP, WPA and WPA2 support.
Transmit power: 10dBm (10mW) or 18dBm (63mW).
Receiver sensitivity: -83dBm or -95dBm
Built-in antenna or ultra-miniature coaxial (U.FL) connector for external antenna connection.
Configurable to connect to any Access Point, with any channel and SSID.

Technical features of inputs:
Number of inputs: sixteen
Operative voltage: from 3,3$V_{DC}$ to 36$V_{DC}$
Max absorbed current on each input: 10mA
Logic low level: < 1V
Logic high level: > 2.5V
Input impedance: ≈ 2.5KΩ

Technical features of outputs:
Number of outputs: sixteen
Operative voltage: from 3,3$V_{DC}$ to 36$V_{DC}$
Max open collector current: 150mA
Protection: optocouplers with 2.500$V_{RMS}$ maximum operative voltage
Connectors: pitch terminal block

Temperature sensor technical features:
Resolution: 0,0625°C
Accuracy: from ±1°C to ±3°C, depending on temperature range.

## WEB-ADIO: Input/output Card with 8 analogical inputs, 8 digital inputs, 8 analogical outputs and 8 digital outputs, Ethernet interface, integrated web, telnet and SNMP servers

WEB-ADIO is a card to manage 8 optocoupled digital inputs, 8 analogical inputs, 8 optocoupled digital outputs and 8 analogical outputs with Ethernet interface, equipped with a web, a telnet and an SNMP servers. The WEB server allows to connect and to manage the card using any web browser (i. e. Internet Explorer and Firefox), with no needs to install a software on your PC Beside, the card can be connected directly to a switch or to a router with no need to use a PC.
It is also possible to develop a customized software managed by telnet service.
WEB-ADIO can be directly connected to PLC or to analogical transducer, to input devices from operator and to other I/O systems.
The analogical inputs and outputs have an operative voltage from 0V to 10V, with a resolution of 10mV and are calibrated one by one. Each input and output status can be read by a web browser or a telnet client at any moment, besides, the status of digital inputs and outputs it is shown directly on the board thanks to LEDs fixed on.

General technical features:

Power supply: external, from $15V_{DC}$ up to $32V_{DC}$
Working temperature: from 0°C up to + 60°C
Storage temperature: from -40°C up to + 85°C
Size: European format card (100 x 160 mm - 3,94 x 6,30 inches)
Max thickness: 20 mm
Ethernet interface: 1 Ethernet RJ45 port

Supported protocols:
*Telnet*: the card can work as telnet server
HTTP: the card can work as WEB server
SNMP: the card can work as SNMP server

Timeout control to turn off all the outputs if it does not receive commands from the host within a time configurable through software.

Technical features of inputs:
Number of inputs: sixteen: 8 analogical and 8 digital
Operative voltage of digital inputs: from $3,3V_{DC}$ to $36V_{DC}$
Operative voltage of analogical inputs: from 0V to 10V (10 bit $A_{DC}$).
Max current absorbed on each input: Digital: 10mA. Analogical: 0,1mA.
Input impedance: Digital: ≈2,5kΩ. Analogical: ≈1MΩ.
Logic low level: < 1V
Logic high level: > 2.5V
Protection: Digital: optocouplers with $2.500V_{RMS}$ maximum operative voltage.
Analogical: overvoltage protection through calmp diodes.
Connectors: pitch terminal block

Technical features of outputs:
Number of outputs: sixteen: 8 analogical and 8 digital
Operative voltage of digital outputs: from 3,3V to 36V (DC).
Operative voltage of analogical outputs: from 0V to 10V (10 bit $D_{AC}$).
Max current (on each output): Digital: 150mA. Analogical: ± 25mA.
Response average time: Digital: 100µs. Analogical: 6ms (from 10% to 90% of the whole dynamic).
Protection of digital outputs: optocouplers with 2.500VRMS maximum operative voltage.
Connectors: pitch terminal block

## WEB-ADIO-WiFi: Input/output Card with 8 analogical inputs, 8 digital inputs, 8 analogical outputs and 8 digital outputs, Ethernet and WiFi interfaces, integrated web, telnet and SNMP servers

WEB-ADIO-WiFi is a card to manage 8 optocoupled digital inputs, 8 analogical inputs, 8 optocoupled digital outputs and 8 analogical outputs with Ethernet and WiFi interfaces, equipped with a web, a telnet and an SNMP servers. The web server allows to connect and to manage the card using any web browser (i. e. Internet Explorer and Firefox), with no needs to install a software on your PC Beside, the card can be connected directly to a switch or to a router with no need to use a PC. The board is available with built-in antenna or with ultra-miniature coaxial (U.FL) connector for external antenna connection.
It is also possible to develop a customized software managed by telnet service.
The analogical inputs and outputs have an operative voltage from 0V to 10V, with a resolution of 10mV and are calibrated one by one.
WEB-ADIO-WiFi can be directly connected to PLC or to analogical transducer, to input devices from operator and to other I/O systems. Each input and output status can be read by a WEB browser or a telnet client at any moment, besides, the status of digital inputs and outputs it is shown directly on the board thanks to LEDs fixed on.

General technical features:

Power supply: external, from $15V_{DC}$ to $32V_{DC}$
Working temperature: from 0°C up to + 60°C
Storage temperature: from -40°C up to + 85°C
Size: European format card (100 x 160 mm - 3,94 x 6,30 inches)
Max thickness: 20mm
Ethernet interface: 1 Ethernet RJ45 port

Supported protocols:
Telnet: the card can work as telnet server
HTTP: the card can work as web server
SNMP: the card can work as SNMP server

WiFi technical features:
Standard WiFi (2,4GHz) 802.11b or 802.11g.
WEP, WPA and WPA2 support.
Transmit power: 10dBm (10mW) or 18dBm (63mW).
Receiver sensitivity: -83dBm or -95dBm
Built-in antenna or ultra-miniature coaxial (U.FL) connector for external antenna connection.
Configurable to connect to any Access Point, with any channel and SSID.

Technical features of inputs:
Number of inputs: sixteen: 8 analogical and 8 digital

Operative voltage of digital inputs: from 3,3$V_{DC}$ to 36$V_{DC}$
Operative voltage of analogical inputs: from 0V to 10V (10 bit $A_{DC}$).
Max current absorbed on each input: Digital: 10mA. Analogical: 0,1mA.
Input impedance: Digital: ≈2,5kΩ. Analogical: ≈1MΩ.
Logic low level: < 1V
Logic high level: > 2.5V
Protection: Digital: optocouplers with 2.500$V_{RMS}$ maximum operative voltage.
Analogical: overvoltage protection through calmp diodes.
Connectors: pitch terminal block

Technical features of outputs:
Number of outputs: sixteen: 8 analogical and 8 digital
Operative voltage of digital outputs: from 3,3V to 36V $_{(DC)}$.
Operative voltage of analogical outputs: from 0V to 10V (10 bit $D_{AC}$).
Max current (on each output): Digital: 150mA. Analogical: ± 25mA.
Response average time: Digital: 100µs. Analogical: 6ms (from 10% to 90% of the whole dynamic).
Protection of digital outputs: optocouplers with 2.500VRMS maximum operative voltage.
Connectors: pitch terminal block

## IN8-USB: Input Card with 8 inputs and USB interface

IN8 is a low size auto powered control unit equipped with USB interface. IN8 can check eight galvanic isolated inputs: on each input it is possible to apply voltages regardless form the USB ground, with a maximum voltage of 30V.
Easy to use, thanks to the driver provided with and to the LabVIEW library available on demand, IN8 also reduce installation costs.
The board low size to be easily integrated in several systems. Besides, IN8 has its inputs galvanically isolated to protect from electromagnetic disturbances and ground loops, improving its reliability and quality.
IN8 is the right answer to the need to acquire digital signals from a PC in an industrial environment.

General technical features:

Power supply: self-powered through USB
Working temperature: from 0°C up to + 60°C
Storage temperature: from -40°C up to + 85°C
Size: 80 x 75 mm (2,95 x 3,15 inches)

Possibility to connect directly to an host port up to 256 cards, for a maximum of 2.048 inputs

USB port technical features:
1 type B port, compatible with USB 2.0, autonomously powered for the host connection

Technical features of inputs:
Number of inputs: 8
Operative voltage: from 3,3$V_{DC}$ up to 36$V_{DC}$
Max current absorbed: 10mA (on each input)
Input impedance: ≈ 2.5KΩ
Logic low level: < 1V
Logic high level: > 2.5V
Port read average time execution: 12 ms
Protection: optocouplers with 2.500$V_{RMS}$ maximum operative voltage
Connectors: pitch terminal block
The state of the inputs is shown through LEDs on the board

## LabVIEW Library for I/O cards:

A complete library for LabVIEW, giving the feasibility of I/O devices remote control, is available on request. The Library allows to implement a LabVIEW application without knowing the details of the communication protocol, making the development quick and easy.
Each library is provided with a help file which explains deeper each function included with.

### TECHNICAL SUPPORT

If you need technical support for one of our products, contact our technicians at this phone number: (+39) 02 320629547
or by e-mail: support@ipses.com

### CUSTOM SOLUTIONS

On request, IPSES develops fully customized I/O cards and control software based on client's specifications.

### AVAILABLE SERVICES

Installation and Setup
Application Support
Hardware Support
Maintenance
Guaranteed extension

PRODUCT CODE

| | |
|---|---|
| I/O-69-SPDT | Input/output Card with 6 inputs and 9 relay outputs and USB interface with single pole double throw relay (SPDT) |
| I/O-69-SPST | Input/output Card with 6 inputs and 9 relay outputs and USB interface with single pole single throw relay (SPST) |
| IO69Library | LabVIEW library for I/O-69 cards |
| IO1616 | Input/output Card with 16 inputs and 16 outputs and USB interface (without temperature sensor) |
| IO1616-T | Input/output Card with 16 inputs and 16 outputs and USB interface (with temperature sensor) |
| IO1616-RS232 | Input/output Card with 16 inputs and 16 outputs and RS232 interface (without temperature sensor) |
| IO1616-RS232-T | Input/output Card with 16 inputs and 16 outputs and RS232 interface (with temperature sensor) |
| IO1616Library | LabVIEW library for I/O-1616 cards |
| CAN-I/O | Input/output Card with 16 inputs and 16 outputs with CAN, USB and RS232 interface (with temperature sensor) |
| WEB-IO | Input/output Card with 16 inputs and 16 outputs with Ethernet interface and WEB, SNMP and telnet servers. Power supply from 5V up to 9V. |
| WEB-IO-T | Input/output Card with 16 inputs and 16 outputs with Ethernet interface and WEB, SNMP and telnet servers. Power supply from 5V up to 9V. Board equipped with temperature sensor. |
| WEB-IO-30 | Input/output Card with 16 inputs and 16 outputs with Ethernet interface and WEB, SNMP and telnet servers. Power supply from 7V up to 32V. |
| WEB-IO-T-30 | Input/output Card with 16 inputs and 16 outputs with Ethernet interface and WEB, SNMP and telnet servers. Power supply from from 7V up to 32V. Board equipped with temperature sensor. |
| WEB-IO-BOX | Input/output Card with 16 inputs and 16 outputs with Ethernet interface and web, telnet and SNMP servers. Power supply from 7V up to 32V. System inside a box suitable for DIN rail fixing. |
| WEB-IO-WiFi | Input/output Card with 16 inputs and 16 outputs with Ethernet and WiFi interfaces and web, telnet and SNMP servers. Power supply from 5V up to 32V. Built-in antenna. |
| WEB-IO-WiFi-T | Input/output Card with 16 inputs and 16 outputs with Ethernet and WiFi interface and web, telnet and SNMP servers. Power supply from 5V up to 32V. Built-in antenna. Board equipped with temperature sensor. |
| WEB-IO-WiFi-U.FL | Input/output Card with 16 inputs and 16 outputs with Ethernet and WiFi interfaces and web, telnet and SNMP servers. Power supply from 5V up to 32V. Ultra miniature coaxial (U.FL) connector for external antenna connection. |
| WEB-IO-WiFi- U.FL -T | Input/output Card with 16 inputs and 16 outputs with Ethernet and WiFi interface and web, telnet and SNMP servers. Power supply from 5V up to 32V. Ultra miniature coaxial (U.FL) connector for external antenna connection. Board equipped with temperature sensor. |
| RTCLOG | RTCLOG Real Time Clock and Logger module for WEB-IO cards (WEB-IO, WEB-IO-T, WEB-IO-30, WEB-IO-T-30 models). |
| WEB-ADIO | Input/output Card with 8 analogical inputs, 8 digital inputs, 8 analogical outputs and 8 digital outputs with Ethernet interface and web, telnet and SNMP servers. |
| WEB-ADIO-WiFi | Input/output Card with 8 analogical inputs, 8 digital inputs, 8 analogical outputs and 8 digital outputs with Ethernet and WiFi interfaces and web, telnet and SNMP servers. Built-in antenna. |
| WEB-ADIO-WiFi-U.FL | Input/output Card with 8 analogical inputs, 8 digital inputs, 8 analogical outputs and 8 digital outputs with Ethernet and WiFi interfaces and web, telnet and SNMP servers. Ultra miniature coaxial (U.FL) connector for external antenna connection. |
| WEB-IOLibrary | LabVIEW library for WEB-IO and WEB-ADIO cards (all models) |
| Euro-DIN | DIN universal rail for I/O cards (Eurocard format) |
| IN8 | Input Card with 8 inputs and USB interface |
| IN8Library | LabVIEW library for IN8 cards |
| USB-A-B | USB cable for IO69, IO1616, IN8 and CAN-I/O (length: 1,8m) |
| USB-A-B-ill | USB cable with light end for IO69, IO1616, IN8 and CAN-I/O |
| ETH-cable | Ethernet cable for WEB-IO and WEB-ADIO cards (length: 2,0m) |

## CONTACTS:

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