

Cybro Components 2023 Q3



Cybro-3
programmable controller
12 opto-coupler inputs 24V
10 relay outputs 8A
4 universal input/outputs
Ethernet, USB, IEX-2
2 RS-232 serial ports
24V DC power supply

Cybro-3H
programmable controller
3 digital inputs
4 relay outputs 8A
4 universal input/outputs
Ethernet, USB, IEX-2
2 RS232, 1 RS485
230V AC power supply

Cybro-3W
programmable controller
8 digital inputs
4 relay outputs 8A
4 NPN outputs 1A
Ethernet, USB, IEX-2
2 RS232, 1 RS485
2 Wiegand interface
230V AC power supply

Cybro-Pi4
Raspberry Pi 4B 2Gb
hardware watchdog timer
PiCAN2 compatible controller
IEX-2 connector for i/o modules
RS485/M-bus serial interface
24V power supply
2 digital inputs
2 relay outputs 8A

ENO EnOcean gateway
RFM free-programmable 868MHz radio
ISO galvanically isolated RS485

Operator panel

IEX-2



OP-2
industrial applications
LCD 2x16 black/green

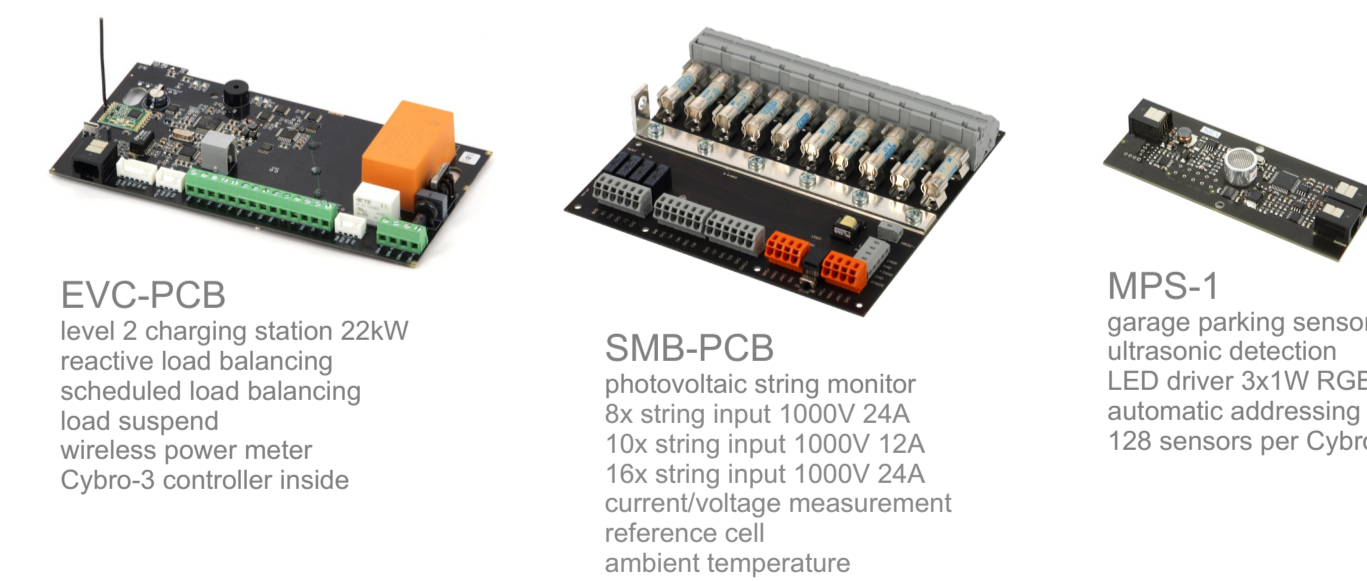
OP-4
LCD 2x20 white/blue
light sensor, IR receiver, beeper
2 temperature sensor inputs
4 switch/potentiometer inputs

OP-8
LCD 2x20 white/blue
temperature, humidity, light sensor
IR receiver, beeper
1 temperature sensor input
1 switch/potentiometer input

TGP-4A-01-IQ
4" color graphic display
480x480, capacitive touch
RS485 modbus RTU slave
24V power supply

TGP-7A-01-IQ
7" color graphic display
1024x600, capacitive touch
RS485 modbus RTU slave
24V power supply

PCB products for integration



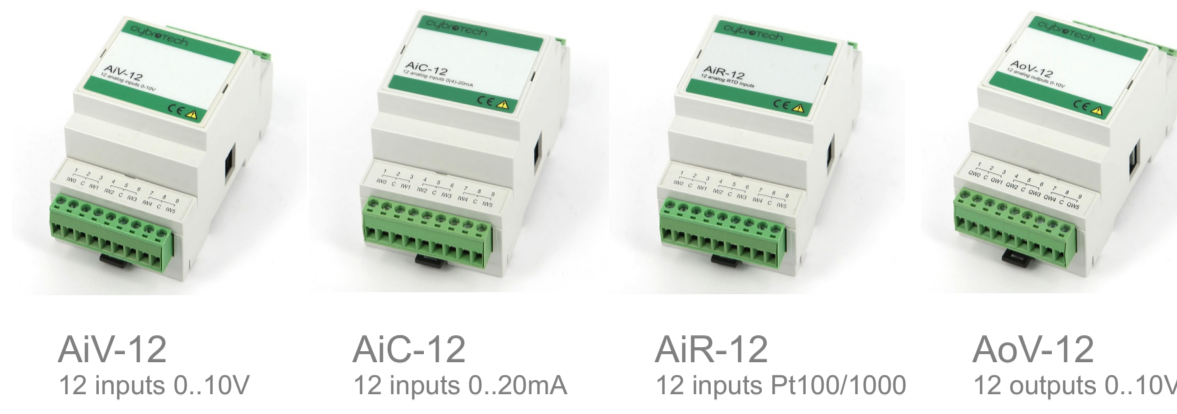
EVC-PCB
level 2 charging station 22kW
reactive load balancing
scheduled load balancing
load suspend
wireless power meter
Cybro-3 controller inside

SMB-PCB
photovoltaic string monitor
8x string input 1000V 24A
10x string input 1000V 12A
16x string input 1000V 24A
current/voltage measurement
reference cell
ambient temperature

MPS-1
garage parking sensor
ultrasonic detection
LED driver 3x1W RGB
automatic addressing
128 sensors per Cybro

Analog input/output

IEX-2



AiV-12
12 inputs 0..10V

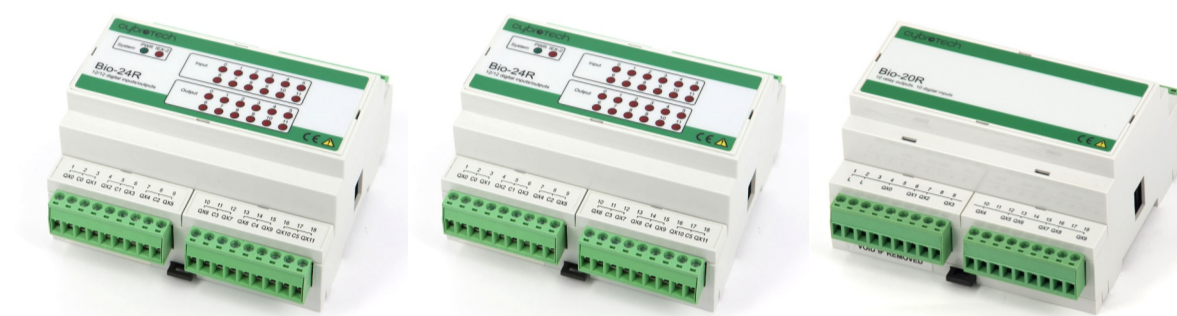
AiC-12
12 inputs 0..20mA

AiR-12
12 inputs Pt100/1000

AoV-12
12 outputs 0..10V

Digital input/output

IEX-2



Bio-24R
12 opto coupler inputs 24V
12 relay outputs 3A

Bio-24T
12 opto coupler inputs 24V
12 transistor outputs 1A/24V

Bio-20R
10 digital inputs dry contact
10 relay outputs 8A

Field-mount devices

IEX-2



FC
fan-coil controller
5 relay outputs 5A
1 binary/analog input
2 temperature sensor

FC-2
fan-coil controller
1 analog output 0..10V
2 relay outputs 5A
1 binary/analog input
2 temperature sensor

TS-H
temperature sensor
humidity sensor
temp sensor input

SW-W3
4 switch/analog inputs
4 switch inputs/LED out

SW-W3-TIR
4 switch/analog inputs
2 temp sensor inputs
1 IR receiver input

BC-5-IQ
5-channel blinds
position controller

SC-4-IQ
scene controller
4 configurable touch buttons
IR receiver

TH-1-IQ
thermostat
touch buttons
LED display

TH-2-IQ
thermostat
no display, no buttons
LED indicator

HC-3-IQ
home automation controller
based on Cybro-3

Software

Developer



CyPro
integrated development
environment: editor, compiler
and on-line monitor for Cybro

Communication



COM Server
read and write variables
using command line (CGI)



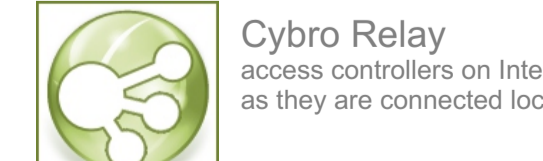
HTTP Server
read and write variables
using standard browser



SCGI Server *
read and write controller
variables in XML format

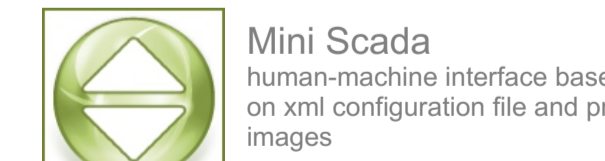


OPC Server
data access driver for SCADA

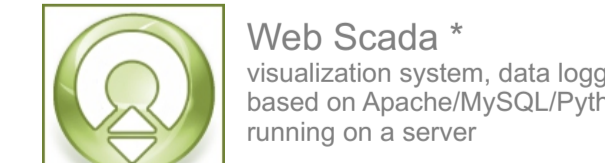


Cybro Relay
access controllers on Internet,
as they are connected locally

Visualization



Mini Scada
human-machine interface based
on xml configuration file and png
images



Web Scada *
visualization system, data logger,
based on Apache/MySQL/Python,
running on a server



HIQ Office
versatile gadget for lights, blinds,
thermostat and fan coil

* written in Python, it can run on various operating systems

Wireless devices



WD-1
wireless DALI-to-DALI bridge
DALI power supply 20mA
multiple ballasts per bridge

WM-1
wireless modbus-to-modbus
modbus RTU serial protocol
multiple slaves per device

WR-1
wireless modbus relay
modbus RTU slave
8 devices per group

WR-1
wireless fan-coil controller
modbus RTU slave
5 remote controlled relays
1 temperature sensor input
1 digital input, dry contact
16 devices per group

Common features: very long range, no hopping, protected private connection, multiple addressable groups. The operating range is 300-500m with no obstacles. Cybro with RFM option can control any of the modules.

HIQ home and building

IEX-2

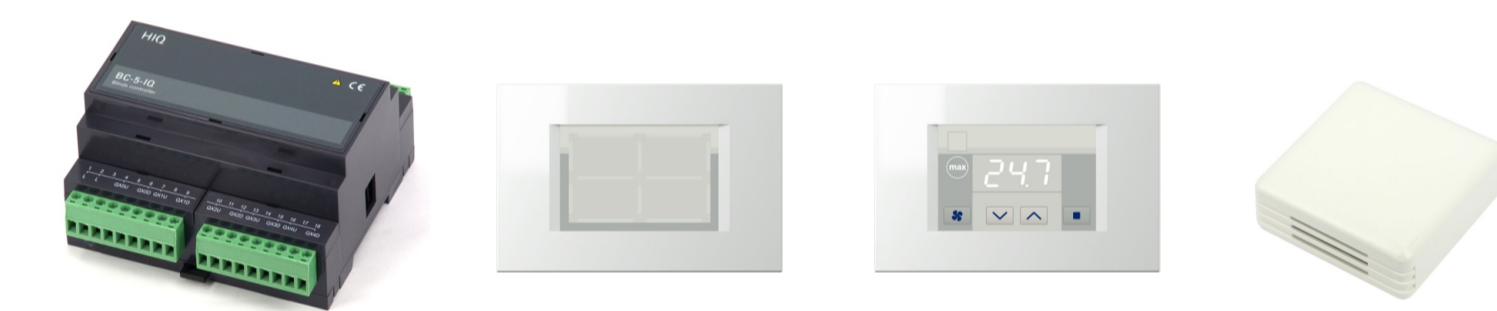


LC-10-IQ
light controller
10 relay outputs

LD-D8-IQ
8-channel dimmer
for DALI ballasts

LD-V4-IQ
4-channel constant voltage
dimmer for LED stripes

LD-P4-IQ
4-channel universal dimmer
with a modular power driver



BC-5-IQ
5-channel blinds
position controller

SC-4-IQ
scene controller
4 configurable touch buttons
IR receiver

TH-1-IQ
thermostat
touch buttons
LED display

TH-2-IQ
thermostat
no display, no buttons
LED indicator



HC-3-IQ
home automation controller
based on Cybro-3

Accessories



Kiss Logger
keep it simple data logger



Backup
one-touch backup for a group
of Cybro controllers



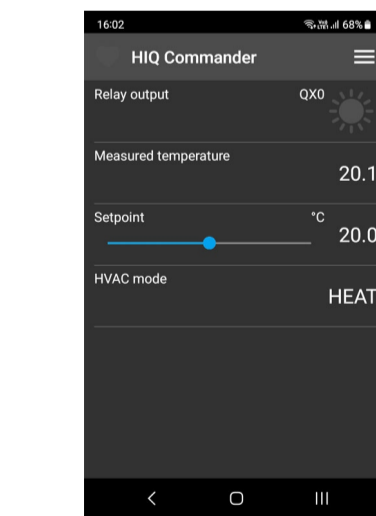
Access
configurator for time-and-space
management solutions



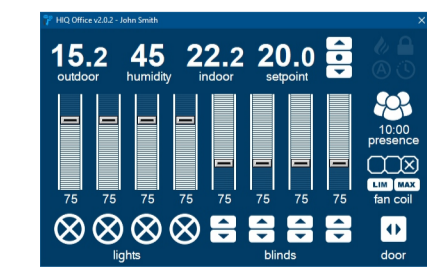
Bin Loader
firmware update for Cybro
controller



IEX Manager
firmware update for IEX
modules



HIQ Commander
mobile app for cybro applications



HIQ Office
desktop gadget for cybro applications

For more details, check Cybro Hardware Manual and HIQ Home User Manual

Wireless gateway

IEX-2



GW-ENO
EnOcean receiver
for switches and sensors

GW-ENO2
EnOcean wireless gateway
for switches, sensors, plugs,
relays, valves and other

GSM-2
data connection for Cybro
send and receive SMS
make and receive a call

Wired gateway

IEX-2



LC-DC
DALI light controller
DALI power supply 200mA
no galvanic isolation
2 analog/digital inputs

LC-DC2
DALI/DALI2 light controller
DALI power supply 100mA
full galvanic isolation
10 digital inputs

CR-W2
card reader interface
2 Wiegand RFID reader
4 analog/digital inputs
2 relay outputs 5A

Serial protocol adapters

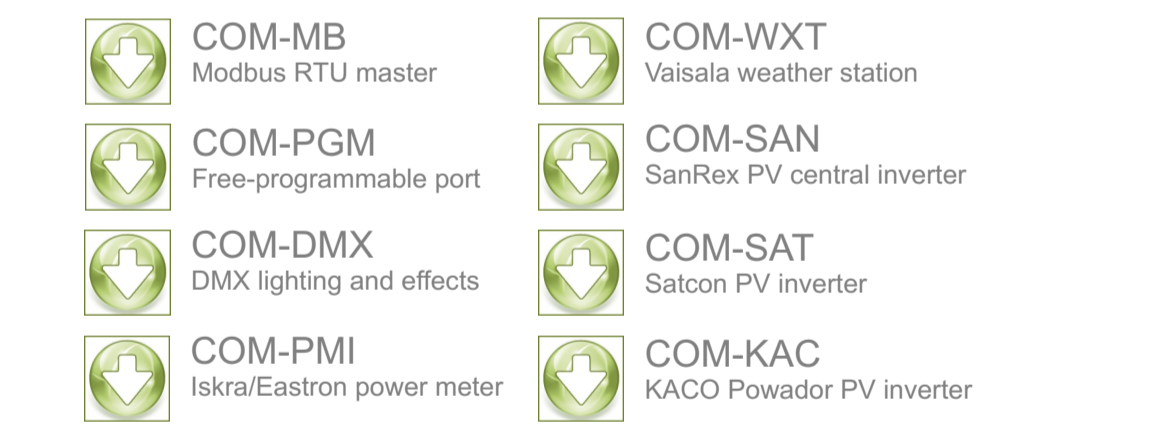
IEX-2



COM-xxx
serial com adapter
IEX RJ9 4/4
RS232 RJ9 4/4
RS485 terminals
galvanic isolation

COM-232-xxx
serial com adapter
IEX terminals
RS232 terminals
galvanic isolation

COM-485-xxx
serial com adapter
IEX terminals
RS485 terminals
galvanic isolation



Accessories



CAD-232-A2
232/485 converter
galvanic isolation
1 RS485 port
2 RS232 ports
power supply from IEX-2

BE-PROT
flat to cable extender
IEX-2 surge protector



ES-P
temperature sensor
with heatshrink cover

ES-B
temperature sensor
in 6mm steel tube

ES-W
temperature sensor
in the box