

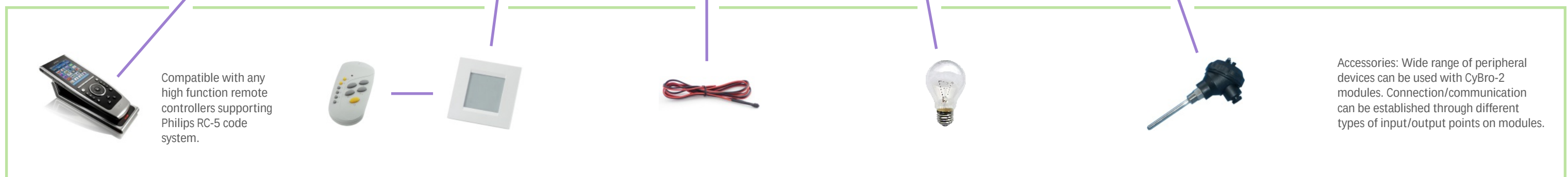
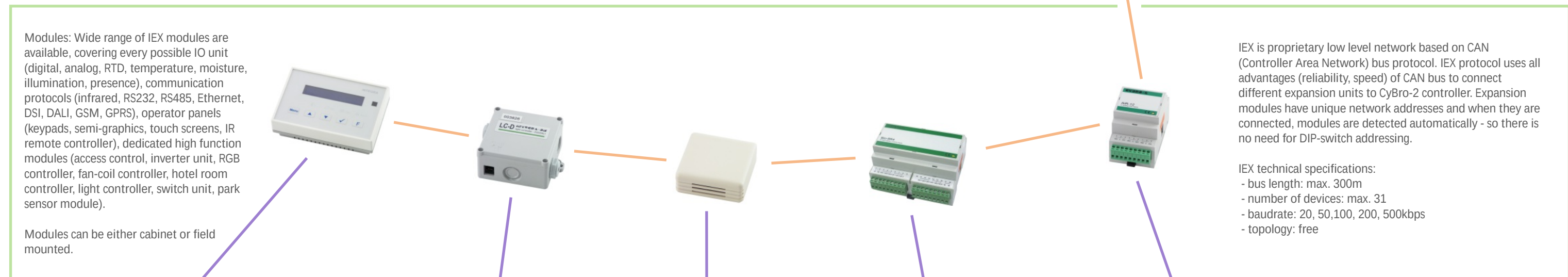
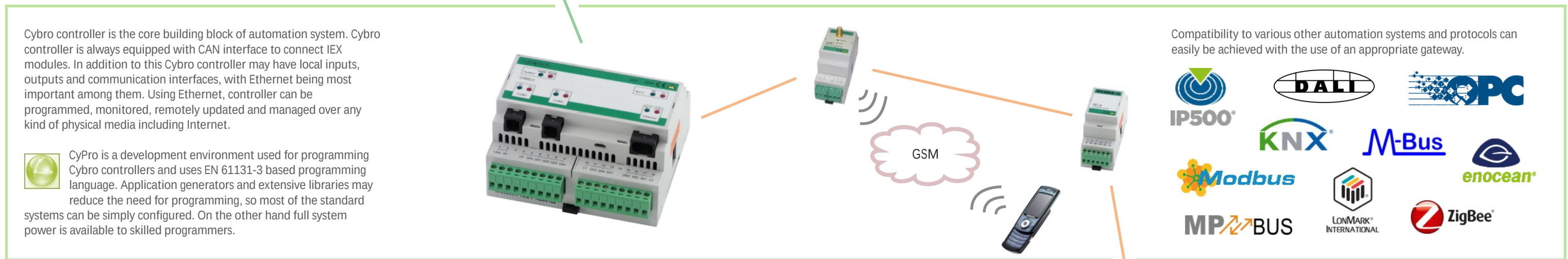
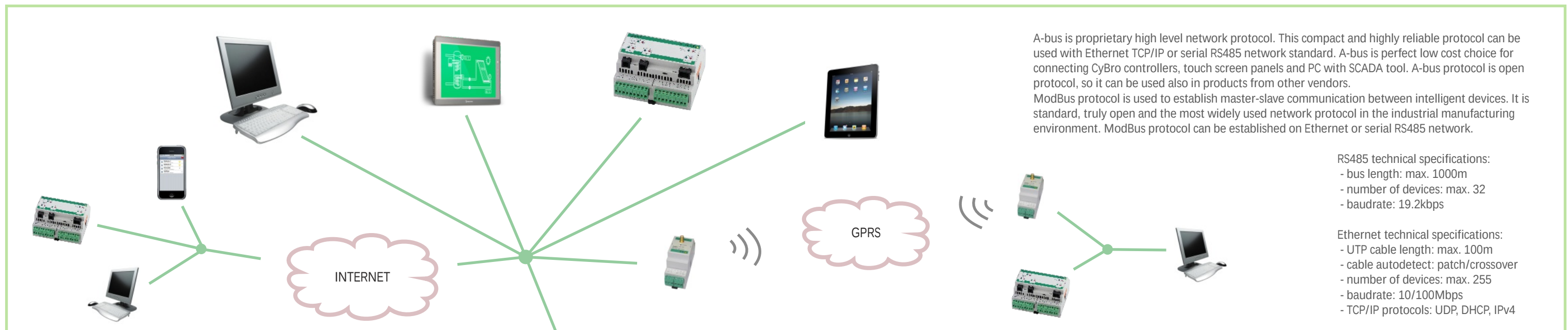
PRODUCTS OVERVIEW

CYBROTECH COMPONENTS



For industrial, infrastructure,
building and home automation





Controllers



Programmable logic controllers

CYBRO-3-24

24V DC, 3.5W

Inputs
12 x opto-coupler
4 x universal input/output
(dig in, dig out, 0..10V in or 0..20mA in, temper. in or 0..10V out)

Outputs
8 x relay, 8A, SPST

Features
ARMv7E-M 100MHz cpu
1Mb flash
64Kb RAM
32Kb EEPROM
RTC

Communication
Ethernet
USB
2 x RS232
IEX

Mechanical
106 x 108 x 58mm
DIN rail (35mm)
IP20

IEX operator panels

Product	OP-1	OP-2	OP-3-T OP-3-TH	OP-4	OP-5-T OP-5-TH	OP-6
						
Description	in-wall panel	industrial panel	on-wall panel	on-wall panel	on-wall panel	in-wall panel
Power	24V DC 50mA	24V DC 40mA	24V DC 50mA	24V DC 50mA	24V DC 50mA	24V DC 40mA
Inputs			1 x switch/pot 1 x temperature	4 x switch/pot 2 x temperature	1 x switch/pot 1 x temperature	
Features	LCD 2 x 16, 5 x key temperature IR receiver, beeper	LCD 2 x 16, 5 x key	LCD 2 x 20, 5 x key 4 x LED temperature, humidity* IR receiver, beeper	LCD 2 x 20, encoder 4 x LED light sensor IR receiver, beeper	LCD 2 x 20, 5 x key temperature, humidity* IR receiver, beeper	4 x 7seg, 4 x key temperature, light sensor IR receiver, beeper
Mechanical	140 x 80 x 48mm flush box M4 IP44	106 x 62 x 24mm panel IP54	120 x 80 x 48mm on-wall IP20	142 x 115 x 25mm on-wall IP20	136 x 96 x 25mm on-wall IP20	140 x 80 x 48mm flush box M4 IP44

* TH model only

IEX I/O modules

Product	BI-24	BIO-24R	BIO-24T	BIO-8R4-L	BIO-8R4-N	BIO-20R
						
Description	digital I/O	digital I/O	digital I/O	power digital I/O for lights and blinds	power digital I/O for general purpose	power digital I/O for lights and blinds
Power	24V DC 60mA	24V DC 160mA	24V DC 90mA	24V DC 150mA	24V DC 150mA	24V DC 120mA
Inputs	12 x switch 6 x switch/pot	8 x opto-coupler 4 x opto-coupler/HSC (A)	8 x opto-coupler 4 x opto-coupler/HSC (A)	4 x mains	4 x mains	10 x switch
Outputs	6 x MOSFET/input switch	12 x relay, 5A, SPST	12 x PNP trans., 24V, 2A	8 x relay, 16A, SPDT	8 x relay, 16A, SPST	10 x relay, 8A, SPST
Mechanical	106 x 108 x 58mm DIN rail (35mm) IP20	106 x 108 x 58mm DIN rail (35mm) IP20	106 x 108 x 58mm DIN rail (35mm) IP20	106 x 108 x 58mm DIN rail (35mm) IP20	106 x 108 x 58mm DIN rail (35mm) IP20	106 x 108 x 58mm DIN rail (35mm) IP20

Product	HR	AIC-12	AIR-12	AIV-12	AOV-12
					
Description	hotel room module	analog current inputs	analog resistive inputs	analog voltage inputs	analog voltage outputs
Power	24V DC 200mA	24V DC 50mA	24V DC 50mA	24V DC 50mA	24V DC 150mA
Inputs	12 x switch 2 x temperature	12 x 0..20mA, 0.1%	12 x resistive, 0.1%	12 x 0..10V, 0.1%	
Outputs	10 x relay, 5A, SPST				12 x 0..10V, 1%
Mechanical	106 x 108 x 58mm DIN rail (35mm) IP20	53 x 108 x 58mm DIN rail (35mm) IP20	53 x 108 x 58mm DIN rail (35mm) IP20	53 x 108 x 58mm DIN rail (35mm) IP20	53 x 108 x 58mm DIN rail (35mm) IP20

Product	RC-A	CR-W2	LC-DC	LD-P4
				
Description	recuperator control	access control	DALI control	dimnable light control
Power	24V DC 1000mA	24V DC 220mA	24V DC 140mA	24V DC 35mA
Inputs	2 x switch/pot 2 x temperature	4 x switch/pot	2 x switch/pot motion, light, IR receiver	4 x switch/pot
Outputs	1 x 0..24V, 2A 4 x open collector 24V, 1A	2 x relay, 5A, SPST	DALI	4 x light driver (Eltako LUD12-230V)
Features		2 x card reader interface (Wiegand protocol)		
Mechanical	36 x 108 x 58mm DIN rail (35mm) IP20	53 x 108 x 58mm DIN rail (35mm) IP20	36 x 108 x 58mm DIN rail (35mm) IP20	36 x 108 x 58mm DIN rail (35mm) IP20

Product	LD-V4	LC-D	LC-S	FC	8C
					
Description	dimnable LED stripe control	digital light control	analog light control	fan-coil control	digital I/O
Power	24V DC 25mA	24V DC 160mA	24V DC 100mA	24V DC 110mA	24V DC 100mA
Inputs	4 x switch/pot	2 x switch 3 x pot motion, light, IR receiver	2 x switch 3 x pot motion, light, IR receiver	1 x switch 2 x temperature	4 x switch
Outputs	4 x LED stripe	DALI 4 x DSI	4 x 0..10V	5 x relay, 5A, SPST	4 x relay, 5A, SPST
Mechanical	108 x 86 x 46mm field mountable IP42	108 x 86 x 46mm field mountable IP42	108 x 86 x 46mm field mountable IP42	108 x 86 x 46mm field mountable IP42	108 x 86 x 46mm field mountable IP42

Product	SW-W3	SW-W3-TIR	O2-L	TS TS-H	MPS-1
					
Description	switch module	in-wall multipurpose module	switching lights	temperature sensor	garage parking sensor
Power	24V DC 70mA	24V DC 40mA	24V DC 85mA	24V DC 15mA	24V DC 120mA
Inputs	4 x switch/pot	4 x switch/pot temperature IR receiver		1 x temperature	ultrasonic distance sensor
Outputs	4 x LED, 10mA /4 x input switch		2 x relay, 16A, SPDT		
Features				temperature humidity*	LED driver 3 x 1W
Mechanical	50 x 50 x 15mm flush box	50 x 50 x 15mm flush box	55 x 60 x 22mm flush box	71 x 71 x 27mm on-wall IP30	130 x 50 x 20mm inside trunking

*TS-H only

IEX Interfaces

Product	COM-	COM-232-	COM-485-	COM-CAN
				
Description	serial ports module*	serial port module*	serial port module*	additional CAN port module
Power	24V DC 50mA	24V DC 50mA	24V DC 50mA	24V DC 50mA
Features	1 x RS232 1x RS485	1 x RS232	1 x RS485	1 x CAN
Mechanical	36 x 99 x 58mm DIN rail (35mm) IP20	36 x 108 x 58mm DIN rail (35mm) IP20	36 x 108 x 58mm DIN rail (35mm) IP20	36 x 108 x 58mm DIN rail (35mm) IP20

*Firmware for functionality:

	COM-ABUS remote A-bus port		COM-KAC Kaco PV inverter		COM-SAT Satcon PV inverter		COM-NOK 4-noks ZigBee gateway		COM-PMI Iskra and Easton power meters gateway
	COM-PRN serial printer		COM-SAN SanRex PV inverter		COM-BCM A123 battery control		COM-WXT Vaisala weather station		

Product	GW-MP	GW-ENO	GW-ZIG	GSM-1
				
Description	Belimo MP-bus gateway	enOcean wireless receiver	ZigBee wireless gateway	GSM/GPRS module
Power	24V DC 50mA	24V DC 50mA	24V DC 50mA	24V DC 100mA (stand by 75mA)
Inputs				4 x switch 4 x pot
Outputs				2 x relay, 1A, SPST
Features	MP-bus gateway	enOcean receiver	ZigBee gateway	tri-band 900/1800/1900MHz
Mechanical	36 x 99 x 58mm DIN rail (35mm) IP20	36 x 90 x 58mm DIN rail (35mm) IP20	36 x 90 x 58mm DIN rail (35mm) IP20	36 x 108 x 70mm DIN rail (35mm) IP20

Accessories

Product	CAD-232-A2	CAD-BE	CAD-BC	CAD-SPL	RE-2
					
Description	A-bus converter	bus expander	bus coupler	bus splitter	remote control
Features	RS232 to RS485 conv.	2 x RJ9 IEX conn. 1 x wires IEX conn.	RJ9 to wires IEX conv.	3 x RJ9 IEX conn.	18 x keys IR range 5m
Mechanical	36 x 99 x 58mm DIN rail (35mm) IP20	36 x 99 x 58mm DIN rail (35mm) IP20	21 x 26 x 18mm	31 x 35 x 26mm	40 x 86 x 5mm

Sensors

Product	ES ES-A ES-W	MS-I MS-O	LRI8134	LRM8114	LRM8115 / 16 / 17
					
Description	temperature sensor	multisensor	multisensor	motion sensor	motion sensor
Power		12..24V DC	12..24V DC	12..24V DC	12..24V DC
Features	temperature	light measurement IR receiver	light measurement motion detection IR receiver	motion detection	motion detection
Mechanical	ES: on wire ES-A: Al housing on wire ES-W: 71 x 71 x 27mm, on-wall	80 x 80 x 35mm flush box in ceiling	72 x 72 x 28mm flush box in ceiling	72 x 72 x 28mm flush box in ceiling	70 x 66 x 73mm on-wall

C programmable controllers

Product	uCXBRO-2R	uCXBRO-2T	IPU
			
Description	micro controller	micro controller	inverter control unit
Power	24V DC 1.9W	24V DC 0.9W	from frequency inverter 100mA
Inputs	8 x opto-coupler 5 x pot 10k 2 x 0..10V, 0.1%	8 x opto-coupler 5 x pot 10k 2 x 0..10V, 0.1%	8 x opto-coupler 4 x 0..10V, 2%
Outputs	6 x relay, 5A, SPST 1 x PWM, 24V, 1A	6 x PNP trans., 24V, 2A 1 x PWM, 24V, 1A	8 x PNP trans., 24V, 2A 1 x 0..10V, 2%
Features	64Kb flash 2Kb RAM 2Kb EEPROM	64Kb flash 2Kb RAM 2Kb EEPROM	64Kb flash 2Kb RAM 2Kb EEPROM
Communication	RS485 IEX	RS485 IEX	IEX
Mechanical	106 x 108 x 58mm DIN rail (35mm) IP20	106 x 108 x 58mm DIN rail (35mm) IP20	104 x 53 x 24mm inside Hitachi frequency inverter

Software

Developer tools



CyPro

integrated development environment, editor, compiler and on-line monitor



CyBro IEX Loader

download firmware to IEX modules, primary for IEX module developers



CyBro Modbus Tester

MODBUS-TCP simulator and traffic logger

Communication



CyBro COM Server

simple command line interface



CyBro HTTP Server

smartphone to CyBro interface



CyBro OPC Server

high-performance industrial interface



CyBro OPC Sync

OPC client for exchanging data between CyBro controllers



CyBro Relay

access controllers on Internet, as they are connected locally



CyBro SCGI Server

communication server for reading and writing CyBro variables

Visualization



CyBro Mini Scada

simple graphical human machine interface



CyBro Web View

simple human-machine interface, written in PHP



CyBro Web Scada

visualization system and data logger, based on Apache/MySQL/Python



HIQ Commander for Android OS

visualization app for Android phones and tablets



HIQ Commander for iOS

visualization app for iPhone & iPad

Accessories



CyBro Access

key configurator for time-and-space management solutions



CyBro Scheduler

execute given task at predefined time



CyBro Backup

one-touch backup for multiple controllers



CyBro Data Tool

read/write variables from multiple controllers



CyBro Kiss Logger

simple data logger, data saved in text file



CyBro Bin Loader

set CyBro static IP, NAD alias, update kernel and plc program



CyBro IEX Manager

NAD change, firmware update, CAN bus quality monitor

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