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SMARTHUB V1.0

DATASHEET

DOCUMENT VERSION HISTORY

2021-04-21	02	typos correction – rx timeout value update			VL
2020-09-04	01	First issue			VL
DATE	Rev	DESCRIPTION	PREPARED	CHECKED	APPROVED

PROPRIETARY INFORMATION

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INTRODUCTION

The PRY-CAM SMARTHUB is a network device combining different functions:

- An integrated 4-Port 10/100BASE-T/TX Managed Ethernet Switch and Media converter, where:
 - Port 1 and Port 2 have SFP interface supporting 100Base-FX
 - Port 3 and Port 4 have ethernet connector (RJ45) supporting 10/100Base-T/TX
- RS485 to Ethernet conversion, supporting TCP/IP or UDP interface
- Web interface for configuration, supporting HTTP basic authentication.

The SMARTHUB is fully versatile and enables complex monitoring solutions with high scalability. Many RS485/MODBUS devices, such as PRY-CAM MINILOGs or PRY-CAM INFRAREDS, can be connected to the SMARTHUB making their data available to the central monitoring server. Up to 1A can be supplied by the SMARTHUB on the RS485 bus for powering the serial devices.

The RS485 can be interfaced by TCP/IP or UDP socket. Network settings can be configured as static IP address or as DHCP client. All the settings of the device are configurable from the WEB interface.

The SMARTHUB can be operated starting from 12Vdc up to 24Vdc with anti-inversion protection.



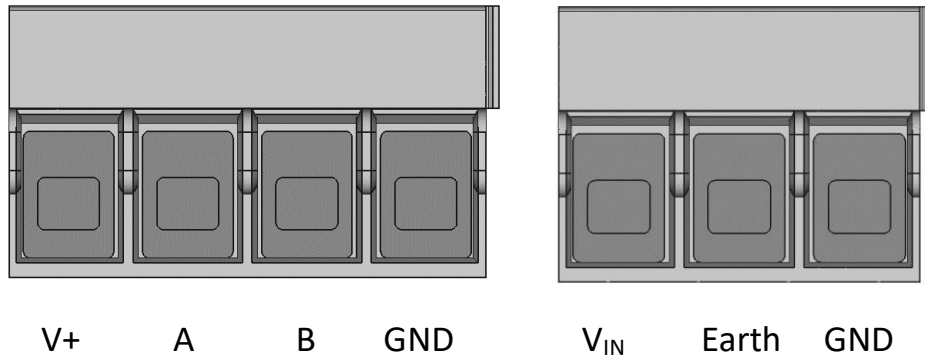



Figure 1 – Front (left) and Side (right) connectors pinout.

 PRY-CAM
SMARTHUB_0101
Logout

Firmware	
Version	SMARTHUB_v1.0
Compiled datetime	Aug 9 2020 17:53:23

Switch Status			
	Link	Speed	Duplex
Port1	NO	N/A	N/A
Port2	NO	N/A	N/A
Port3	NO	N/A	N/A
Port4	OK	100	Full

Network Settings	
MAC address	00:A0:2F:A0:01:01 UPDATE
DHCP	0 UPDATE
IP address (static)	192.168.0.10 UPDATE
Netmask (static)	255.255.255.0 UPDATE
Gateway (static)	192.168.0.1 UPDATE

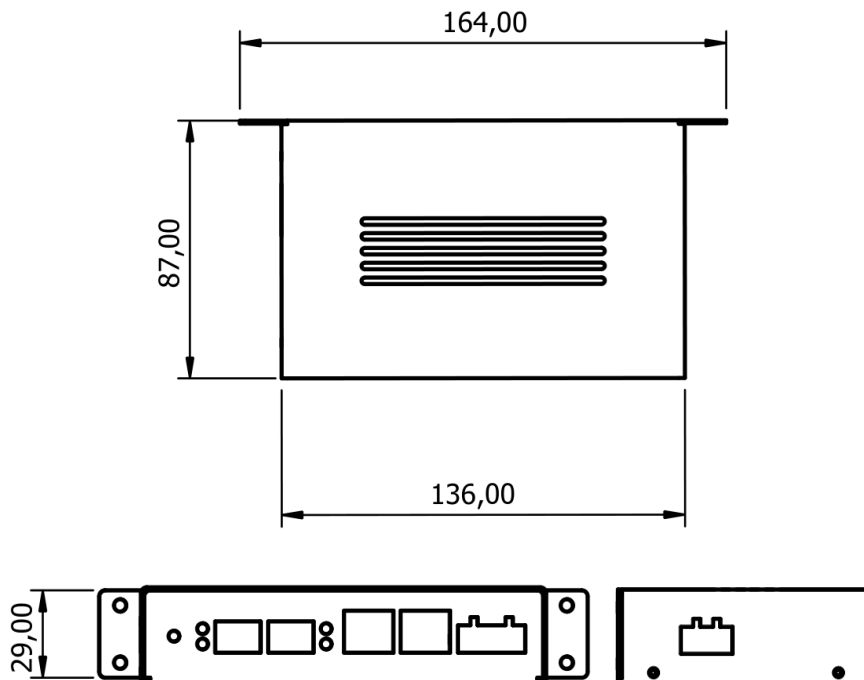
Interface Settings	
HTTP server	1 UPDATE
TCP/UDP server	0 UPDATE
TCP server port	8081 UPDATE
TCP receive timeout (s)	60 UPDATE
UDP server port	8089 UPDATE

Figure 2 – SMARTHUB Web interface.

ELECTRICAL SPECIFICATIONS

Overall specifications			
Supply Voltage	12 to 24	V dc	
Supply Current (steady, no SFP connected)	70	mA	@12VDC
Supply Current (steady, 2x SFP connected)	180	mA	@12VDC, 2x 100Base-T Eth SFP modules
RS485 Bus Power capability	1	A	Max, fuse protected
Switch type	10/100BASE-T/TX		Managed Ethernet Switch and Media converter
Port 1	SFP		100Base-FX
Port 2	SFP		100Base-FX
Port 3	Ethernet		10/100Base-T/TX
Port 4	Ethernet		10/100Base-T/TX
Reset Button	1		Short pression for soft reset
Factory Reset Button	1		10s pression for factory settings
Weight	380	gr	

MECHANICAL DATA



All dimensions in mm.

DEVICE SETTINGS AND FACTORY VALUES

Parameter	Description	Factory Value	Note
MAC address	Device MAC address	00:A0:2F:A0:00:00	Capitol case characters, colon separated, factory reset does not affect it
DHCP	Enable/disable DHCP client	0	0: OFF 1: ON
IP Address	IP address (no DHCP)	192.168.0.10	
Netmask	Netmask address (no DHCP)	255.255.255.0	
Gateway	Gateway address (no DHCP)	192.168.0.1	
HTTP server	Enable/disable Web interface	1	0: OFF 1: ON
TCP/UDP server	Enable TCP or UDP server	0	0: TCP server 1: UDP server
TCP server port	TCP server port	8081	
TCP receive timeout (s)	Timeout in seconds for closing TCP socket connections	60	0: no timeout 1-255: timeout in seconds
UDP server port	UDP server port	8089	
RS485 Baudrate	RS485 Baudrate	9600	1200-115200 bps
RS485 Parity	Set parity	0	0: None 1: Odd 2: Even
RS485 Stop bits	Set stopbits	1	1 or 2 bit
RX end timeout (0.1ms)	Set RX timeout in tenth of milliseconds	500	1-9999 (0.1 – 999.9 ms) Minimum 2 char time
(New) Username	Change WEB interface login username	admin	5 characters minimum
(New) Password	Change WEB interface login password	admin	5 characters minimum