PBH-104

(Programmable Device Server)



Overview

PBH-104 is a 4-port programmable device server embedded with a *PHPoC interpreter. PBH-104 makes it easy to realize desired features with user-defined functions since PHPoC is compatible with a PHP scripting language which has been widely used throughout the development environments.

Besides, PBH-104 is equipped with a USB port to simply add wireless LAN networking capabilities to serial devices by plugging in a wireless LAN adapter. Thanks to these features, PBH-104 is flexible in application and sufficient to meet diverse needs. *PHPoC (PHP OnChip) is compatible with PHP excluding some functions (Syntax and internal functions limited.)

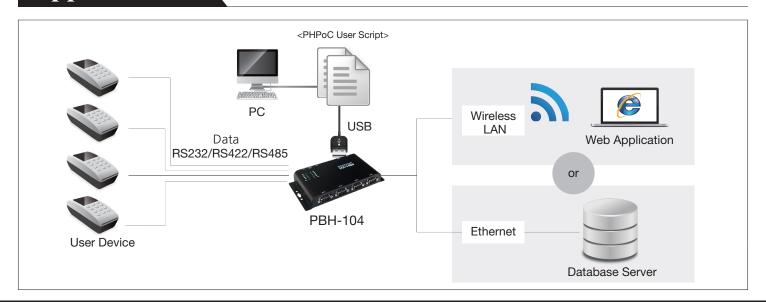
Highlights

- PHPoC interpreter embedded
- Uploading and debugging codes via USB
- Ethernet 10Base-T or 100Base-TX (Auto-Sensing)
- IEEE 802.11b/g (USB wireless LAN adapter required)
- 4 x Serial Ports (RS232/RS422/RS485)
- Industrial temperature range (-40 °C ~ +85 °C)

* PHPoC

- PHP compatible script language
- C/PHP compatible expression parser
- Multi-tasking capability (Application, HTTP server)
- In field run-time debugger

Applications



Specifications

_	·
Serial Physical Interface	
Serial Interface	RS232 - RXD, TXD, RTS, CTS, DTR(Always ON), GND
	RS422 - TX+, TX-, RX+, RX-, GND with embedded 100K biasing
	resistors and TVS
	RS485 - TRX+, TRX-, GND with embedded 100K biasing resistors and TVS
Connector	9 pin D-sub male
	Serial Port Properties
Baudrate	1,200bps ~ 230,400bps
Data Bits	8 bits, 7bits with parity
Parity	None, Even, Odd, Mark, Space
Stop Bit	1, 2
Flow Control	RTS/CTS
	Network Interface
Ethernet	10Base-T or 100Base-TX (RJ45)
	Ethernet Speed Auto Sense
	1:1 or Cross-over Cable Auto Sense
Wireless LAN	Ralink RT3070/5370 USB wireless LAN dongle required on the USB A Connector
	IEEE 802.11b/g Wireless LAN
	WEP, WPA-PSK, WPA2-PSK, WPA-Enterprise (EAP-TLS, EAP-TTLS, PEAP)
USB Interface	
USB A Connector	Ralink RT3070/5370 USB wireless LAN dongle for Wireless LAN
USB B Connector	For PC connection to upload/download user PHPoC script
	Software Functions
PHPoC	Embedded PHP (Limited syntax & Internal functions) script language
Protocols	TCP, UDP, IP, HTTP, ICMP, DHCP
Security	SSL/TLS, MD5/SHA1, DES/RC4/AES/SEED
	Indicators (LEDs)
Power	Red
Status	Yellow
User Programmable LED	LED A ~ H
	Supplementary Software
PHPoC Writer	PHPoC Uploading Files, Setting, Upgrading F/W
PHPoC Debugger	PHPoC Writer's Functions + Debugging + Downloading / Editing Files
Dimension	
Size	180mm x 90mm x 24mm
	Operating Environment
Input Voltage	DC5V ±0.5V (DC jack or USB)
Current Consumption	Typically 235 mA (without USB Wireless LAN adapter)
Power Protection	Reverse Voltage Protection, Surge Protection
Operating Temperature	-40 °C ~ +85 °C (without USB Wireless LAN adapter)
Storage Temperature	-40 °C ~ +85 °C (without USB Wireless LAN adapter)

SOLLAE SYSTEMS E-mail : support@ezTCP.com www.ezTCP.com