

Access Point

WP543 Wireless Host CPU Board

Wireless 54/108/300^①Mbps XR[™] Access Point



WP543, the latest CPE featured by Compex, is a powerful and robust platform. WP543 is able to support all Compex miniPCIs, including the latest WLM200 series. Utilizing Atheros latest generation of CPU, it gives users immediately a powerful platform to replace their CPE.

WP543 has the same form factor and power specifications as WP54, thus giving users a convenient switch from our previous product. The ability to support NAND flash on WP543 also greatly increases the flash space. The optional integration of a radio (2.4GHz) on the board saves cost for the users as well.

Features

- Up to 300MHz Processing Speed
- NAND Flash supported
- Support up to 2 miniPCI slots^①
- Integrated 2.4GHz b/g band radio (Optional)
- USB 2.0 Port (Optional)
- All Compex miniPCI supported
- Support Compex, OpenWRT firmware^④
- Integrated Power-over-Ethernet
- Available for Hardware Customization for user needs
- Suitable for Embedded Systems or OEM Project

TECHNICAL SPECIFICATIONS

SYSTEM INFORMATION	
Processor	Atheros AR7130 (300 Mhz) Networking Processor
General Usage	CPE
System Memory	32MB or 64MB DDR SDRAM
NOR Flash	256KB (up to 16MB Flash)
NAND Flash	32MB (up to 128MB Flash)
Integrated radio (if any)	2.4Ghz b/g radio (Optional)
MiniPCI Slot	Up to 2 miniPCI slot
Ethernet	1 X 10/100 Base TX Ethernet Port (with Auto MDI / MDIX)
Serial Ports	1
JTAG Debug Interface	1
USB Device Interface	1 (Optional)
Push Button Reset	Yes
Surge Arrestor	Supported
Watch Dog Timer	No
PoE	Passive PoE(range 12V-24V DC)
Power over Datalines	No
DC Jack Input	Range 12V-24V DC
Power consumption (Board only)	4W
Certificate	FCC, CE
ROHS Compliance	Yes
Humidity	5% to 95% (non-condensing)
Temperature Range	Operating: -20°C to 55°C Storage: -65°C to 100°
Dimension (in mm)	130 x 120 x 1.6 (mm)
Weight	160g

SOFTWARE INFORMATION	
Firmware Support	Compex , OpenWRT ^④
Development Kits	JTAG Programmer ^② , Serial Converter ^③ , POE injector + Power Supply



PRODUCT INFORMATION^④

MODE NAME	MiniPCI Slot	NOR FLASH	NAND FLASH
WP543 6A	1	2MB	32MB
WP543 6B	2	2MB	32MB
WP543 6C	1	4MB	--
WP543 6D	2	4MB	--
WP543 6E	1	8MB	--
WP543 6F	2	8MB	--
WP543 6G	1	16MB	--
WP543 6H	2	16MB	--

ORDERING CONFIGURATIONS^①

CODES	VERSION	CARTON DIMENSIONS
P-C5 CPXWP5436x	Compex Firmware Version	For 50pcs (pcs/ctn), 0.72m * 0.36m * 0.22m / 0.006 =9.5KG
P-C5 OEMWP5436x	OEM Firmware Version	
P-C5 WRTWP5436x	OpenWRT Version	

- ① Depends on Order Configuration
- ② JTAG Programmer available to reprogram the flash in case of loader corruption.
- ③ Serial Converter available to change the TTL signals on board to RS232 signals for debugging
- ④ Configurations are subjected to change without notice

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