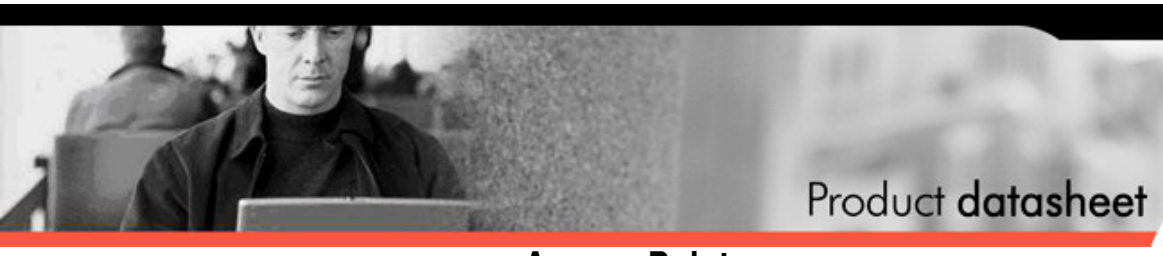


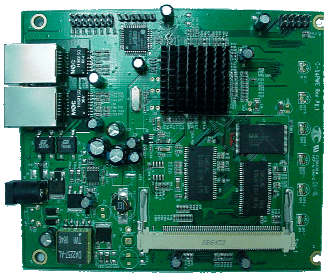
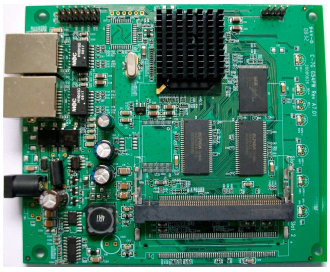
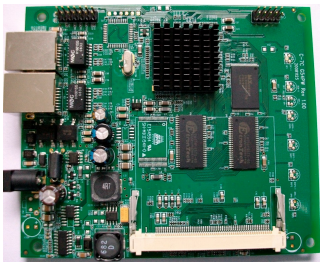
Product datasheet

COMPEX
networks@work

Access Point

WP54

Wireless Host CPU Board

WP54 6E	
WP54 7A	
WP54 7C	

Features

- Infineon ADM5120 Processor operating at 175MHz
- Embedded with 16MB (Up to 128MB max.) SDRAM and 4MB Flash
- Support Power-over-Ethernet（PoE）
- Support Compex NetPassage, OpentWRT Firmware
- MiniPCI Support 5V DC ①
- Surge arrestor support
- Available for Hardware Customization for user needs

TECHNICAL SPECIFICATIONS

Product Name	WP54 6E	WP54 7A	WP54 7C
Processor	ADM5120 SOC,175 MHz/227 MIPS 4Kc CPU	ADM5120 SOC,175 MHz/227 MIPS 4Kc CPU	ADM5120 SOC,175 MHz/227 MIPS 4Kc CPU
System Memory	16MB SDRAM (Up to 128MB max.)	16MB SDRAM (Up to 128MB max.)	16MB SDRAM (Up to 128MB max.)
NOR Flash	4MB Flash	4MB Flash	4MB Flash
NAND Flash	-	Optional	Optional
MiniPCI Slot	1 x MiniPCI Slot	1 x MiniPci slot	1 x MiniPCI Slot
LAN Interface	2 X 10/100 Base-T Ethernet Ports (with Auto MDI / MDIX)	2 X 10/100 Base-T Ethernet Ports (with Auto MDI / MDIX)	2 X 10/100 Base-T Ethernet Ports (with Auto MDI / MDIX)
Serial Ports	1②	1③	1②
JTAG Debug Interface	1	1	1
Push Button Reset	Yes	Yes	Yes
MiniPCI 5V DC Supported	No	No	Yes
Surge Arrestor	Optional	Optional	Optional
Voltage Sensor /Temperature Sensor	Optional	Optional	Optional
POE	IEEE 802.3af Standard PoE Compatible Compex PoE Plus Compatible (24V to 48V)	Compex PoE Plus Compatible (12V to 24V)	Compex PoE Plus Compatible (12V to 24V)
Power over Data lines	No	Yes	Yes
DC Jack Input Voltage	24VDC to 48VDC Power Supply	12VDC to 24VDC Power Supply	12VDC to 24VDC Power Supply
Power consumption (Board only)	5W	5W	5W
Certificate	CE, FCC	-	CE,FCC
ROHS Compliance	Yes	Yes	Yes
Humidity	10% to 90%(non-condensing)	10% to 90%(non-condensing)	10% to 90%(non-condensing)
Temperature Range	Operating:-20°C to 70°C Storage:-45°C t0 100°C	Operating:-20°C to 70°C Storage:-45°C t0 100°C	Operating:-20°C to 70°C Storage:-45°C t0 100°C
Dimension (in mm)	128mm X 109.22mm X 18mm	128mm X 109.22mm X 18mm	128mm X 109.22mm X 18mm

SOFTWARE INFORMATION	
Firmware Support	Compex WP54 Series Firmware , Generic Firmware
3rd-party firmware projects	OpenWRT

DEVELOPMENT KITS	
Include	JTAG Programmer④, Serial Converter⑤, POE injector + Power Supply

Product Information⑥

MODEL NAME	SDRAM RAM	FLASH	MiniPCI 5V SUPPORTED	POWER REQUIREMENT	SUPPORTED Poe TYPE
WP546E	16MB	4MB	No	24VDC (Can Range from 24V to 48V DC)	Compatible with IEEE 802.3af PoE Compatible with Compex PoE Plus
WP546E-32	32MB	4MB	No	24VDC (Can Range from 24V to 48V DC)	Compatible with IEEE 802.3af PoE Compatible with Compex PoE Plus
WP54 7A	16MB	4MB	No	24VDC (Can Range from 12V to 24V DC)	Compatible with Compex PoE Plus
WP54 7C	16MB	4MB	Yes	24VDC (Can Range from 12V to 24V DC)	Compatible with Compex PoE Plus

ORDERING CONFIGURATIONS⑦

WP54 6E

CODES	VERSION	CARTON DIMENSIONS
P-C5 CPXWP546E	Compex Firmware Version	For 50pcs (pcs/ctn), 0.72m * 0.36m * 0.22m / 0.006 = 9.5KG
P-C5 CPXWP546E-32	Compex Firmware Version	
P-C5 OEMWP546E	OEM Firmware Version	
P-C5 OEMWP546E-32	OEM Firmware Version	
P-C5 WRTWP546E	OpenWRT Firmware Version	
P-C5 XXXWP546E	Other firmware Version	

WP54 7A

CODES	VERSION	CARTON DIMENSIONS
P-C5 CPXWP54LV7A	Compex Firmware Version	For 50pcs (pcs/ctn), 0.72m * 0.36m * 0.22m / 0.006 = 9.5KG
P-C5 OEMWP54LV7A	OEM Firmware Version	

WP54 7C

CODES	VERSION	CARTON DIMENSIONS
P-C5 CPXWP54LV7C	Compex Firmware Version	For 50pcs (pcs/ctn), 0.72m * 0.36m * 0.22m / 0.006 = 9.5KG
P-C5 OEMWP54LV7C	OEM Firmware Version	

① Depends on Product model and your order Configuration
② Support 2 X 5 Pin serial port connecter
③ Support 1 X 5 Pin serial port connecter
④ JTAG Programmer available to reprogram the flash in case of loader corruption.
⑤ Serial Converter available to change the TTL signals on board to RS232 signals for debugging
⑥ Configurations are subjected to change without notice
⑦ Depends On Order Configuration

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