



NetPassage WPE72NX

Wireless 11N Indoor Access Point

Features

- Atheros XR™ extended Range technology
- Atheros MIPS 24K 400MHz Network Processor
- IEEE 802.11n compliant and backward compatible with 802.11a/b/g
- Dual-band MIMO 2 x 2 spatial multiplexing technique
- Supports up to 300Mbps physical data rates
- Delivers 10 times the throughput and nearly twice the range of legacy 802.11a/g network
- Supports IEEE802.11i , IEEE802.1x authentication
- Transmission Power Control (IEEE 802.11h TPC)
-
- Supports Passive Power-over-Ethernet (PoE)
- Integrated with PoE cascade arrangement[®]
- 2 x Fix Omni Antenna Or 2 x RP-SMA Connector and Antenna[®]

WPE72NX TECHNICAL SPECIFICATIONS

| SYSTEM INFORMATION | | | | | | | | |
|---------------------------------|--|-------------------|--|-------------------|-----------|-------------------|--|--------|
| Processor | Atheros AR7240 (400 MHz) Network Processor | | | | | | | |
| Memory Size | 32MB (max 64MB optional) DDR SDRAM | | | | | | | |
| NOR Flash | 8MB (max 16MB optional) | | | | | | | |
| LAN Interface | 2 x 10/100 BASE-T Ethernet Port | | | | | | | |
| Antenna | 2 x 2dBi@dual-band detachable antenna | | | | | | | |
| Power Consumption | 5.5Watts | | | | | | | |
| Radio option[®] | 2.4/5GHz 802.11n(WLM200NX) | | | | | | | |
| Tx Specifications | | 802.11b(2.437GHz) | | 802.11g(2.437GHz) | | 802.11a(5.800GHz) | | |
| | 1Mbps | 21dBm | | | | | | |
| | 6Mbps | 21dBm | | 20dBm | | 20dBm | | |
| | 54Mbps | | | 18dBm | | 15dBm | | |
| | | 802.11n/g | | | 802.11n/a | | | |
| | | HT20 | | HT40 | | HT20 | | HT40 |
| | MS0 | 20dBm | | 20dBm | | 20dBm | | 20dBm |
| | MS3 | 20dBm | | 20dBm | | 20dBm | | 20dBm |
| | MS7 | 13dBm | | 12dBm | | 11dBm | | 11dBm |
| Rx Specifications | | 802.11b | | 802.11g | | 802.11a | | |
| | 1Mbps | -93dBm | | | | | | |
| | 6Mbps | -93dBm | | -94dBm | | -94dBm | | |
| | 54Mbps | | | -78dBm | | -75dBm | | |
| | | 802.11n/g | | | 802.11n/a | | | |
| | | HT20 | | HT40 | | HT20 | | HT40 |
| | MS0 | -93dBm | | -90dBm | | -93dBm | | -90dBm |
| | MS3 | -86dBm | | -82dBm | | -85dBm | | -82dBm |
| | MS7 | -73dBm | | -71dBm | | -72dBm | | -70dBm |
| Power Supply | 5V to 24V DC, power adapter and injector included | | | | | | | |
| Power method | Passive PoE(24V DC), | | | | | | | |
| RoHS Compliant | Yes | | | | | | | |
| Weight | 130g | | | | | | | |
| Humidity | Operating: 5% to 95% (non-condensing) Storage: Max.90% (non-condensing) | | | | | | | |
| Temperature Range | Operating:-20°C to 70°C Storage: -40°C to 90°C | | | | | | | |
| Dimension | 100mm x 76mm x 26mm(H x W x D) | | | | | | | |

FIRMWARE SPECIFICATIONS

Multiple SSID

- Supports up to 4 virtual access points (VAP) per radio, with unique BSSID. Each VAP can configure their own security and differentiated services.

Long Range Support

- Suitable for long range wireless deployment with Proprietary Long Distance Algorithm of ACK and CTS timeout adjustment support.
- Provides recommended values for the parameters as well as allow for manual fine-tuning for optimal performance.

Signal Strength Indicators

- LEDs are adjustable to display 4 different level signal strength

Variable Spectrum Bandwidth Support

- Options to select operation over 5MHz,20MHz and 40MHz spectrum bandwidth

| FIRMWARE INFORMATION | |
|--|--|
| Operating Modes | <ul style="list-style-type: none"> • Access Points • Station • Station WDS • Repeater WDS • Wireless Adapter • Station + Router • Access Point + Router |
| WAN Type | <ul style="list-style-type: none"> • Static IP • Dynamic IP • PPPoE • PPTP |
| Device Management | <ul style="list-style-type: none"> • HTTP / HTTPs Web Server • SNMP V2c • Telnet / Secure Shell (SSH) |
| Data Capture & Notification | <ul style="list-style-type: none"> • Event Login (Syslog) • Detailed Statistics per Client |
| Virtual Access Point (VAP) | <ul style="list-style-type: none"> • Up to 4 SSIDs with unique MAC Addresses (BSSID) |
| Advanced Features | <ul style="list-style-type: none"> • Built-in DHCP server • Transmission Power Control (One dB per step) • Closed System (Suppress SSID) • Transmission Rate Control • Spanning Tree Protocol |

| OTHER PROMINENT FEATURES | DESCRIPTION |
|---|---|
| Long Range Parameter Settings | Distance adjustment for long range transmission |
| CPE Point-to-Point (PtP) | Ideal as CPE device connecting PtP with a central AP |
| Power with PoE | Device power from PoE through ethernet cable provides flexible installation. |
| IEEE 802.11h (DFS & TPC) | Enables worldwide operation through support for standards-based Dynamic Frequency Selection (DFS) and Transmission Power Control (TPC) |
| SNMP Trap | SNMP Traps enable an agent to notify the management station of significant events by way of an unsolicited event. |
| Signal Strength LEDs Indicators | 4 Step Progressive Bars. Each bar represents a progressive increase in signal strength, with 4 bars representing maximum signal strength (100%). |
| DHCP Relay (Only in Gateway or Wireless Routing Client Mode) | Allows DHCP Clients on different subnets to get IP address from central DHCP server. |
| Remote Upgrade of Firmware | Allows user to upgrade their firmware through Telnet/SSH |
| RIP 1 / 2 (Only in Gateway or Wireless Routing Client Mode) | Routing Information Protocol Version 1 / 2 |
| Tag and Untag VLAN/VLAN Pass-through | a. Tag VLAN Pass-through mode in AP/Transparent Client link b. Wireless untag Vlan to Ethernet Tag Vlan mode c. Wireless tag Vlan to Ethernet Tag Vlan mode |

Customizable Options ^④

| CUSTOMIZABLE FEATURES | DESCRIPTION |
|-------------------------------|--------------------------------------|
| Web Page Customization | Customize webpage for OEM customers. |

Ordering Information^⑤

| Item Code | Version | Integrated Antenna | Carton Dimensions |
|----------------------|-------------|--------------------|---|
| WPE72NX 7A02AFCU-200 | Compex US | 2dBi | For 10 pcs/carton, 0.78m*0.38m*0.25m/0.006=1 2.35KG |
| WPE72NX 7A02AFCE-200 | Compex EU | 2dBi | |
| WPE72NX 7A02AFOU-200 | OEM US | 2dBi | |
| WPE72NX 7A02AFOE-200 | OEM EU | 2dBi | |
| WPE72NX 7A02AFWU-200 | Open-WRT US | 2dBi | |
| WPE72NX 7A02AFWE-200 | Open-WRT EU | 2dBi | |

- ① Available for dual-band or 5GHz Single-band radio model
- ② The input power can come from an Ethernet port and it is fed to the other Ethernet port so that it can in turn drive another Passive PoE device
- ③ Depends on Ordering Configuration
- ④ For OEM customization options, please contact sales person.
- ⑤ Configurations are subject to change without notice
Please contact Compex sales representatives for other available configurations

Compex Systems Pte Ltd

135 Joo Seng Road, PM Industrial Building #08-01,
Singapore 368363
Tel: (65) 6286 2086
Fax: (65) 6280-9947
Email: sales@compex.com.sg

Compex (Suzhou) Co Ltd

NO.12, ChuangTou Industrial Square,
LouFeng North, Suzhou Industrial Park,
Suzhou, Jiangsu Province, China 215122
Tel: (86)-512-62950050
Fax: (86)-512-62950026



Copyright © 2010 Compex Systems. All rights reserved. COMPEX and the COMPEX logo, are registered trademarks of COMPEX Inc. Atheros and other trademarks are properties of their respective owners. While every effort is made to ensure the information accurate, Compex does not accept liability for any errors or mistakes that may arise. All specification is subject to change without notice. DS V 1.0.6 GH 110909

For more information, visit www.compex.com.sg