



# APN 5824 Plus

## Overview

Transystem offers an 802.11n based Access Point/Bridge, it can offer a high performance Wi-Fi system to increase the network capacity and extend wireless coverage. It is capable of providing the high data throughput according to 802.11n standards, and also backward compatible with 802.11a/b/g standards.

The 802.11n based Access Point/Bridge provides the wide area networking requirements. It is based on Atheros AP96 2x2 MIMO platform, providing simultaneously 5GHz and 2.4GHz radios.

The 5GHz radio can support point-to-point bridge communication as well as point-to-multipoint bridge communication, as well as access point application based on 802.11n standards, also compatible with 802.11b/g standards. With built-in 2x2 5GHz antenna, it makes easy installation and flexible deployment, as well as high-throughput data transmission for backbone wireless networking applications.

The 2.4GHz radio can support access point application based on 802.11n standards, also back compatible with 802.11b/g standards.



## Key Features

- Support IEEE 802.11a/b/g/n
- Based on Atheros AP96 dual concurrent 2x2 MIMO 5GHz & 2.4GHz Radios Platform
- Built-in 2x2 MIMO 5GHz High-gain Antenna
- External 2x2 MIMO 2.4GHz antenna ports in standard N-connectors
- Built-in Lightning Protection Circuits
- GbE interface
- 802.3at PD complied
- Support PtP & PmP long distance Bridging Communication (up to 35Km)
- Support Access Point Application
- IP-67 Rated Enclosure for Outdoor Application

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## Specification

### Wireless Interface

#### 2.4GHz (2X2) Radio

- Operation Mode Access Point
- Standard IEEE 802.11b/g/n
- Operation Frequency 2.4.12 – 2.4835 GHz (Ch 1-13)
- Transmit Power 26 dBm (max.)
- Receive Sensitivity (Typical) 802.11b
  - 11Mbps -88 dBm
  - 1Mbps -95 dBm
- 802.11g
  - 54 Mbps -78 dBm
  - 6 Mbps -92 dBm
- 802.11n
  - HT20 -92 dBm
  - HT40 -88 dBm
- Connect up to 2 External Antennas

#### 5GHz (2X2) Radio

- Operation Mode Point to Point Bridging  
Point to Multi-point  
Bridging (Up to 8 peers)  
Accesspoint
- Standard IEEE 802.11a/n
- Operation Frequency 5.15 – 5.35 GHz  
5.47 – 5.725 GHz  
5.725 – 5.825 GHz
- Transmit Power 26 dBm (max.)
- Receive Sensitivity (Typical) 802.11a
  - 54Mbps -76 dBm
  - 6Mbps -92 dBm
- 802.11n
  - HT20 -92 dBm
  - HT40 -88 dBm
- Antenna Built-in 5GHz 16 dBi Flat Panel (Dual Polarization)

### Networking

- DHCP Client
- VPN Pass-through
- Switch and Gateway Mode
- 10/100/1000 Mbps Ethernet Port
- 1 WAN
- Backhaul link integrity/resilience
- IGMP snooping
- Management VLAN
- STNP
- Wi-Fi QoS

### Security

#### AP mode

- Authentication Open system, Shared key, WPA/WPA-PSK, WPA2/WPA2-PSK, 802.11x (PEAP, TLS, TTLS)
- Encryption WEP, TKIP, AES
- MAC based Access Control
- SSID Suppression

#### bridge mode

- Encryption WEP, AES

### Management

- Web-based Administration Tool
- Remote Firmware Upgrade (HTTP)
- SNMP
- IP discovery tool

### Physical Specification

- Dimension 220 x 220 x 60mm
- Weight < 2 kg (Unit Weight)  
8 kg (Gross Weight for 2 units in a pack)
- Mounting Pole Mounted

### Power Supply

- 802.3at Compliant Powered over Ethernet interface
- Power Source PoE Injector (48V)
- Power Consumption 16W (Typical)  
25W (Max.)

### Environmental Specification

- Operating Temp.
  - Ambient -40°C to +60°C
  - PoE Power Injector 0°C to +40°C
- Storage Temperature -40°C to +80 °C
- Humidity 0 – 95% (Non-condensing)
- Lightning Protection IEC 1000-4-2  
Instant Surge 4 KV
- Wind Loading 90 mph (Operational)  
125 mph (Survival)
- Weatherproof IP-67 compliant

### Certification

- FCC/CE
- Other

Typical value @ 25°C, unless otherwise specified

Specifications are subject to change without prior notice

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