

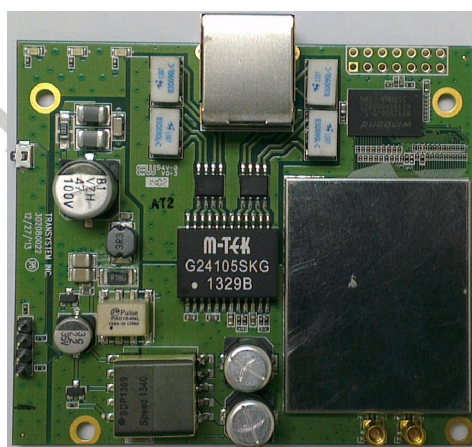
# APN24-01

## Overview

Transsystem Inc. offers an 802.11n 2x2 based Access Point PCBA platform, APN24-01, 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 802.11b/g standards.

The 802.11n based Access Point provides the wide area networking requirements. It is based on Atheros AR9341 2x2 MIMO platform, providing 2.4GHz radios. It can deliver up to 300Mbps data-rate and improve the network efficiency by occupying the wireless channel in short period, reducing the congestion, and increasing the capacity of the wireless devices.

The 2.4GHz radio can support access point, bridge, client & repeater application by firmware definition, which is based on 802.11n standards, also back compatible with 802.11b/g standards.



## Key Features

- Very compact 8.0cm x 7.0cm PCBA dimension with advanced IEEE 802.11b/g/n features
- Based on Atheros AR9341 2x2 MIMO 2.4GHz Radios Platform
- External 2x2 MIMO 2.4GHz antenna ports in standard MMCX connectors
- Built-in Lightning Protection Circuits
- One FE interface
- 802.3at PD complied
- Supports IEEE802.11b/g backward compatibility allows inter-operability among multiple WiFi networks
- Supports WEP 64/128/152 & WPA/WPA-PSK/WPA2/WPA2-PSK security
- RoHS compliance

## 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 (average)

802.11g		
54 Mbps		+22 dBm
6 Mbps		+26 dBm

802.11n		
HT20		
	MCS-7	+21 dBm
	MCS-0	+26 dBm
HT40		
	MCS-7	+21 dBm
	MCS-0	+26 dBm

- Receive Sensitivity (Typical)

802.11b		
1Mbps		-92 dBm

802.11g		
54 Mbps		-73 dBm
6 Mbps		-82 dBm

802.11n		
HT20		
	MCS-7	-68 dBm
	MCS-0	-82 dBm
HT40		
	MCS-7	-64 dBm
	MCS-0	-80 dBm

- Connect up to 2 MMCX ports

## Ethernet Specification

- Auto MDI/MDI-X Ethernet 10/100 Based-TX
- 1 x RJ-45 connector

## Memory Size

- SDRAM 32MB
- Flash 8MB

## Physical Specification

- PCBA Dimension 80 x 70 mm
- 1 x RESET switch

## Power Supply

- 802.3at complied Powered over Ethernet interface
- Power Source PoE interface
- Voltage Range: +57 ~ +38V
- Power Consumption 11W (Maximum)

## Environmental Specification

- Operating Temp. Ambient 0°C to +70°C
- Storage Temperature -10°C to +80 °C
- Humidity 0 – 95% (Non-condensing)
- Lightning Protection IEC 1000-4-2 Instant Surge 2 KV

Typical value @ 25°C, unless otherwise specified

Specifications are subject to change without prior notice

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## TranSystem. Inc.

Tel: + 886-3-578-0393 Fax: + 886-3-578-4111  
Inquiries: sales@transystem.com.tw

Address: No. 1-2, Li-Hsin Rd I, Science-Based Industrial Park,  
Hsinchu, Taiwan, R.O.C.  
Web site: <http://www.transystem.com.tw>

