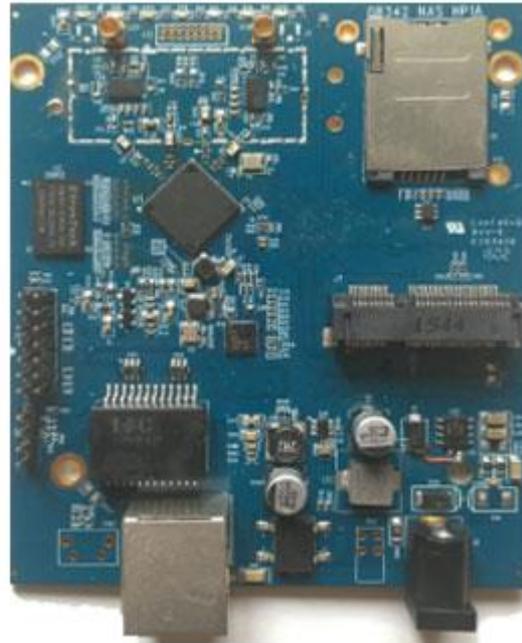


## Features

- Featuring with industrial-grade Atheros's AR9342(533 MHz) chipset
- Integrated with 2x 2 5G high power (up to 30dBm aggregate ) Radio Card
- 5.180GHz to 5.825GHz Frequency Range
- 1x10/100/1000Mbps Gigabit Ethernet Port
- 2 x 5G MMCX Connectors
- 20M/40M Bandwidth
- Support LTE/3G application (Optional)
- RoHS compliance ensure a high level protection of human health and the environment from risks that can be posed by chemicals



## Applications

- Security Surveillance
- Commercial radio coverage
- Hotel Wireless application
- Country coverage
- Forest fire protection engineering
- Some special scene application

## Product Description

DR342-NGS27 based on Atheros/AR9342 chipset is an enterprise wireless motherboard integrated with 2x2 5G high power (up to 30dbm aggregate) Radio card designed specifically to provide users with mobile access to high-bandwidth video streaming, voice, and data transmission for office and challenging RF environment in factories, warehouses establishment. It can be easily upgraded to the latest version of firmware by just a few clicks on the GUI.

## Absolute Maximum Rating

Parameter	Rating	Unit
Supply Voltage	0 to +56	V
Operating Temperature Range	-40 to +70	°C
Storage Temperature Range	-65 to +105	°C
Operating Humidity Range	5 to +95 (non-condensing)	%
Storage Humidity Range	0 to +90 (non-condensing)	%

## Operating Conditions

Parameter	Rating	Unit
Supply Voltage(DC Jack)	+12 to +56	V
POE	+24 to +56	V
Temperature	-40 to +70	°C

## Hardware Specifications

Symbol	Parameter
CPU	Atheros AR9342 530MHz processor frequency
System Memory	64M DDR2
NOR Flash	16MB
Switch IC	Atheros AR8035-AL1AR 1 GIGA port PHY/RGMII switch
Power IC	TI/TPS5436
Power consumption	6W(Board Only)
1000MLAN port POE define	Pin 4/5 and pin 7/8 connect to the anode or cathode respectively POE input
Antenna Connector	2 x 5G MMCX connectors
Power Connector	1 x DC JACK D(center)=2.1mm Max 50V DC
Power Solution	DC Jack Input: 12-56V, Passive POE: 24 -56V
LAN Connector	1 x 1000M LAN port
ROHS Compliance	YES
Reset Button	RT push button
Dimension	99mm x 85mm x 16mm
Socket Height	Mini PCIE 9.2mm

## Radio TX Specifications

Operating Mode	Data Rate	Power		Tolerance
		1 Chain	2 Chains	
802.11a	6 Mbps	27dBm	30dbm	±2dB
	54 Mbps	23dBm	26dbm	±2dB
802.11n HT20	MCS0, MCS8	27dBm	30dbm	±2dB
	MCS7, MCS15	22dBm	25dbm	±2dB
802.11n HT40	MCS0, MCS8	27dBm	30dbm	±2dB
	MCS7, MCS15	22dBm	25dbm	±2dB

## Radio RX Specifications

Operating Mode	Data Rate	Sensitivity
802.11a	6 Mbps	-94dBm
	54 Mbps	-75dBm
802.11n HT20	MCS0, MCS8	-92dBm
	MCS7, MCS15	-73dBm
802.11n HT40	MCS0, MCS8	-90dBm
	MCS7, MCS15	-70dBm

## Dimension Drawing

