

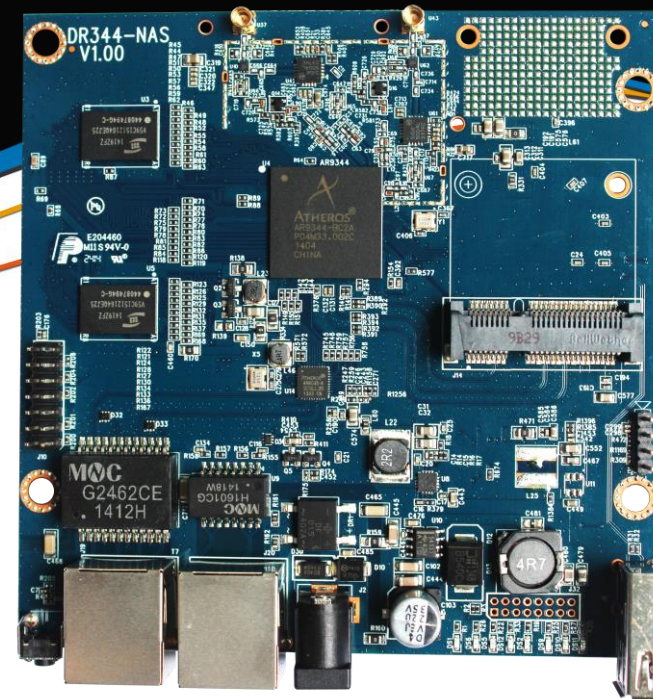


# Access Point Host Board

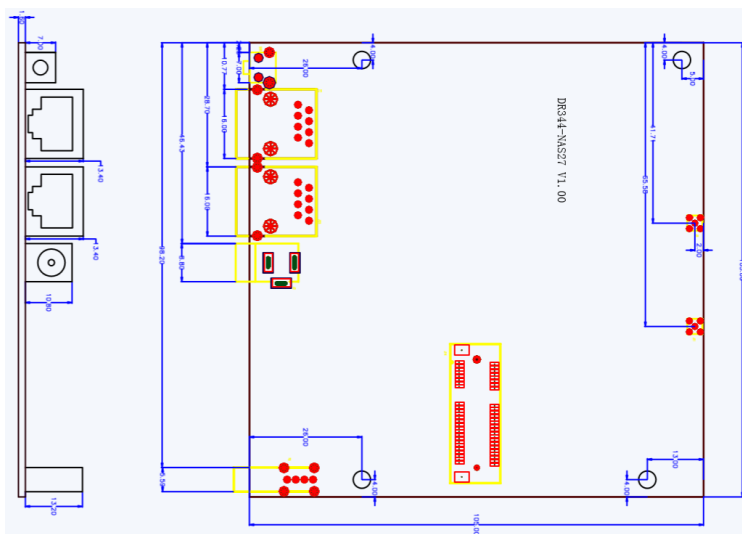
## Model: DR344-NAS27

Wireless motherboard integrated with 1x5G radio

DR344-NAS27 based on Atheros/ AR9344 chipset is an enterprise wireless motherboard integrated with 1 x 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 environments in factories, warehouses establishments. It can be easily upgraded to the latest version of firmware by just a few clicks on the GUI.



### DIMENSION DRAWING



### Key features:

- ✓ Featuring with industrial-grade Atheros/ AR9344(560 MHz)chipset.
- ✓ Integrated with 1 x 5G high power (up to 30dBm aggregate ) Radio Card.
- ✓ Supports 1 x 10/100Mbps Fast Ethernet Port and 1 x 10/100/1000Mbps Gigabit Ethernet Port.
- ✓ Support LTE/3G application (Optional)
- ✓ Supports 2 x 5G MMCX connectors.
- ✓ Support 5M/10M/20M/40M Bandwidth.
- ✓ Support 1 x USB2.0 (Optional)
- ✓ Supports operating frequency from 2.312 GHz to 2.502 GHz and 4.92GHz to 6.085GHz.
- ✓ RoHS compliance ensure a high level protection of human health and the environment from risks that can be posed by chemicals.

# Technical Specifications

Hardware Information	
CPU	Atheros/AR9344-AC2A 560 MHz processor frequency
System Memory	64MB (max 128MB DDR2 optional)
NOR Flash	8MB (max 16MB optional)
Switch IC	Atheros/AR8035-AL1A-R 1 GIGA port PHY/RGMII switch
Power IC	TI/TPS54531 24V to 5V 5A regulator
	AME/AME5291 5V to 3.3V 2A regulator
Power consumption	2.04W(Board Only)
	6.6W(Board + 2.4G card)
	7.1W(Board + 5G card)
1000M LAN port POE define	Pin 4/5 and pin 7/8 connect to the anode or cathode respectively 24V input
Antenna Connector	2 x 5G MMCX connectors (U3&U5)
Power Connector	1 x DC JACK (J2) D(center)=2.1mm Max 24V DC input / 1 x 2 pin header pitch=3.96mm (J32)
LAN Connector	1 x 100M LAN (J4) port / 1 x 1000M LAN port (J3)
ROHS Compliance	YES
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
Reset Button	RT push button (SW6)
Dimension	105mm x 105mm x 15.1mm

## Integrated Card specifications(Operating Frequency 5180-5825MHz)

TX Specifications				RX Specifications				
802.11 a	Data Rate	TX Power		Tolerance	802.11 a	Data Rate	Sensitivity	Tolerance
		1 chain	2 chains					
		6Mbps	27dBm					
	54Mbps	23dBm	26dBm	±2dB		54Mbps	-75dBm	±2dB
802.11 N HT 20	Data Rate	TX Power		Tolerance	802.11 N HT 20	Data Rate	Sensitivity	Tolerance
		1 chain	2 chains					
		MCS0/8	27dBm					
	MCS7/15	22dBm	25dBm	±2dB		MCS7/15	-73dBm	±2dB
802.11 N HT 40	Data Rate	TX Power		Tolerance	802.11 N HT 40	Data Rate	Sensitivity	Tolerance
		1 chain	2 chains					
		MCS0/8	27dBm					
	MCS7/15	22dBm	25dBm	±2dB		MCS7/15	-70dBm	±2dB

## Ordering Information

Item Code	Processor	On-board radio	NOR Flash	Memory	Socket Height
DR344-NAS27	AR9344	5GHz	16MB	128MB	9.2mm