

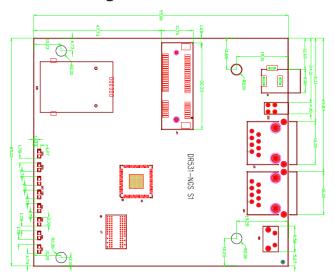
Wireless Embedded Board

Model: DR531-NGS27

LTE/3G Router Board

DR531-NGS26 based on Qualcomm-Atheros AR9531 chipset is an enterprise wireless motherboard integrated with 1 x 2.4G 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 QCA-Atheros AR9531 (550 MHz)chipset.
- ✓ Integrated with 1 x 2.4G high power (up to 30dBm aggregate) Radio Card.
- ✓ Supports 2 x 10/100Mbps FE Port.
- ✓ Support LTE/3G application
- ✓ Supports 2 x 2.4G MMCX connectors.
- ✓ Support 5M/10M/20M/40M Bandwidth.
- ✓ Support 1 x buzzer (Optional)
- ✓ Supports operating frequency from 2.312 GHz to 2.7 GHz.
- ✓ RoHS compliance ensure a high level protection of human health and the environment from risks that can be posed by chemicals.

Technical Specifications

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				lardware Info	ormatio	n					
CPU		Qu	ıalcomm-Athero	s AR9531							
System Memory			64MB (max 128MB DDR2 optional)								
NOR Flash			8MB								
Power consumption			2.04W(Board Only)								
Antenna Connector			2 x MMCX								
Power Connector			1 x DC JACK								
LAN Connector			2 x 100M LAN								
Power Solutions			DC Jack Input: 12-24V, Passive PoE: 24V								
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			Software reset, Hardware reset(Optonal)								
Extras			Serial Port, JTAG, Surge Arrestor, Watchdog Timer								
Dimension			95mm x 85mm x 17mm								
	Integ	rated Car	d specific	ations(Opera	ting Fre	quency 2412	2-2472MHz)				
			cifications			RX Specifications					
_	Data Rate	TX Power		T-1		Data Data	Consistivity	Tolowanaa			
푸_		1 chain	2 chains	Tolerance	 	Data Rate	Sensitivity	Tolerance			
802.11 9	6Mbps	27dBm	30dBm	$\pm 2 dB$	802. g	6Mbps	-92dBm	$\pm 2dB$			
∞	54Mbps	23dBm	26dBm	±2dB	_ ∞	54Mbps	-75dBm	±2dB			
	Data Rate	TX F	Power	T.1.		D.I. D.I.		T.1.			
튁ᆫ		1 chain	2 chains	Tolerance	₹ ⊢	Data Rate	Sensitivity	Tolerance			
802.11 N HT 20	MCS0/8	27dBm	30dBm	$\pm 2 dB$	802.11 N HT 20	MCS0/8	-91dBm	±2dB			
	MCS7/15	22dBm	25dBm	±2dB		MCS7/15	-73dBm	±2dB			
		TX Power									
802.11 N HT 40	Data Rate	1 chain	2 chains	Tolerance	802.11 N HT 40	Data Rate	Sensitivity	Tolerance			
	MCS0/8	27dBm	30dBm	±2dB	0.5.	MCS0/8	-90dBm	±2dB			
	MCS7/15	22dBm	25dBm	±2dB	∞ z 4	MCS7/15	-70dBm	±2dB			

Ordering Information

Item Code	Processor	On-board radio	NOR Flash	Memory
DR531-NGS27	AR9531	2.4GHz	8MB	64MB