

Features

- Qualcomm Atheros QCN9074 or QCN6024;
- Maxim Tx power 20dBm per chain;
- Data Rate up to 4804Mbps
- Support 2.412GHz-2.472GHz & 5.18GHz-5.825GHz
- 4 spatial streams (4SS)
- MiniPCIe connector
- PCI Express 3.0 Interface



Applications

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

Product Description

DR9074E-DB based on QCN9074 or QCN6024 Chipset is an enterprise wireless module integrated with 4x4 MU-MIMO Dual Band Wireless Module 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.

Absolute Maximum Rating

Parameter	Rating	Unit
Operating Temperature Range	-20 ~ 70	°C
Storage Temperature Range	-40 ~ 90	°C
Operating Humidity Range	5 ~ 95 (non-condensing)	%
Storage Humidity Range	0 ~ 90 (non-condensing)	%

Hardware Specifications

Symbol	Parameter
Chipset	Qualcomm Atheros QCN9074(QCN6024)
WLAN Host Interface	PCI Express 3.0 Interface
System Memory	2Mbit serial I ² C bus EEPROM
Standard Operating Voltage	3.3V
Operating Systems	QSDK
Host Interface	MiniPCIE
Antenna Cable / Port	4 x UF.L Connectors,4T4R
Frequency Range	2.412GHz-2.472GHz & 5.18GHz-5.825GHz
Data Rates	Maxim TX power 20dBm per chain, up to 4804Mbps
Channel Spectrum Widths	Support 20/40/80/ 160MHz
Modulation Techniques	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM;
Temperature Range	Operating: -20 °C to 70 °C, Storage: -40 °C to 90 °C
Humidity	Operating: 5% to 95% (non-condensing), Storage: Max. 90% (non-condensing)
Certification	TBD
Power Consumption	15W (Maximum) , 9.5W(Normally)
Dimensions (WxHxD)	30mm x 50mm x 14.5mm

MiniPCIE Pin Definitions

Pin No.	Name	Pin No.	Name
1	PCIE0_WAKE_3P3_N	2	VDD3P3_PCIE
3		4	GND
5		6	
7	PCIE0_CLKREQ_3P3_N	8	
9	GND	10	
11	PCIE0_REFCLK_N	12	
13	PCIE0_REFCLK_N	14	
15	GND	16	
17		18	GND
19		20	
21	GND	22	PCIE0_PERST_3P3
23	PCIE0_TX0_N	24	VDD3P3_PCIE
25	PCIE0_TX0_P	26	GND
27	GND	28	
29	GND	30	
31	PCIE0_RX0_N	32	
33	PCIE0_RX0_P	34	GND
35	GND	36	
37	GND	38	
39	VDD3P3_PCIE	40	GND
41	VDD3P3_PCIE	42	
43	GND	44	
45		46	
47		48	
49		50	GND
51		52	

Product Version

Version	CPU	Chains	Feature
DR9074E-DB4	QCN6024	4	2.412GHz-2.472GHz & 5.18GHz-5.825GHz
DR9074E-DB4I	QCN9074	4	2.412GHz-2.472GHz & 5.18GHz-5.825GHz
DR9074E-DB2	QCN6024	2	2.412GHz-2.472GHz & 5.18GHz-5.825GHz
DR9074E-DB2I	QCN9074	2	2.412GHz-2.472GHz & 5.18GHz-5.825GHz