

MaxR-552-4 Operating Description

- Module Information

WLAN Specification	
RF Chip	AR5414
Interface	MINI PCI
IEEE Standard	IEEE802.11p
TXRX Chain	1T1R
Radio Modulation	OFDM
Modulation Mode	BPSK/QPSK/16QAM/64QAM
Data Rate	3, 4.5, 6, 9, 12, 18, 24, 27 Mbps
Frequency Range	5850 – 5925 MHz
Operating Channel	5860,5870,5880,5890,5900,5910,5920 MHz

- Transmit Center Frequency and Symbol Clock Tolerance Specification

Band Width	ppm (parts per million)
20 MHz	20 ppm
10 MHz	20 ppm

- Error Vector Magnitude Specification

Modulation	Coding Rate	EVM (dB)	Modulation	Coding Rate	EVM (dB)
BPSK	1/2	-5	16QAM	1/2	-16
BPSK	3/4	-8	16QAM	3/4	-19
QPSK	1/2	-10	64QAM	2/3	-22
QPSK	3/4	-13	64QAM	3/4	-25

- Receiver Minimum Sensitivity Specification

Mode	Modulation	Sensitivity	Modulation	Sensitivity
11p	BPSK	-85	16QAM	-77
	BPSK	-84	16QAM	-73
	QPSK	-82	64QAM	-69
	QPSK	-80	64QAM	-68