

WiFi Spec. and Antenna Spec.(which used on GXV3615W)

Product	802.11b/g/n Adapter			
Trader Name	ALLWINS			
Model Number	AWM51N_US_HS			
Power Adapter	Powerd from main board(+3V3D)			
Frequency Range	IEEE 802.11b:2412~2472MHz IEEE 802.11g:2412~2472MHz draft 802.11nStandard-20MHz: 2412~2472MHz draft 802.11nStandard-40MHz: 2422~2462MHz			
Number of Channels	IEEE 802.11b/g:13channels draft 802.11n Standard-20MHz:13channels draft 802.11n Wide-40MHz:9channels			
Transmit Power		Frequency Range (MHz)	Output Power (dBm)	Output Power (mW)
	IEEE 802.11b	2412~2472MHz	16 ± 15%	22.91~69.18
	IEEE 802.11g	2412~2472MHz	12 ± 15%	10.47~23.99
	draft 802.11n-20MHz	2412~2472MHz	12 ± 15%	10.47~23.99
	draft 802.11n-40MHz	2422~2462MHz	12 ± 15%	10.47~23.99
Antenna Spec.	Dipole Antenna /Gain:2dBi, 1T1R			
Temperature Range	0°C~40°C			

Modulation Technique

IEEE 802.11b		IEEE 802.11g		
Modulation Technique	Data Rate (Mbps)	Modulation Technique	Data Rate (Mbps)	
DSSS	1	OFDM	6	
	2		9	
	5.5		12	
	11		18	
				24
				36
				48
				54

draft 802.11n Standard-20 MHz		
MCS Index	Modulation	Data Rate (Mbps)
		800ns GI
0	BPSK	6.5
1	QPSK	13.0
2	QPSK	19.5
3	16-QAM	26.0
4	16-QAM	39.0
5	64-QAM	52.0
6	64-QAM	58.5
7	64-QAM	65.0

draft 802.11n Standard-40 MHz			
MCS Index	Modulation	Data Rate (Mbps)	
		800 ns GI	400ns GI
0	BPSK	13.5	15.0
1	QPSK	27.0	30.0
2	QPSK	40.5	45.0
3	16-QAM	54.0	60.0
4	16-QAM	81.0	90.0
5	64-QAM	108.0	120.0
6	64-QAM	121.5	135.0
7	64-QAM	135.0	150.0

Antenna Spec.:

1. part name:WiFi 2.4GHz 2dBi Dipole Antenna Coaxial 1.13mm ,L=120mm
2. Working Frequency 2400MHz~2483.5MHz
3. Impedance:50ohm(NOMinal)
4. Gain:2dBi
5. Polarization: Linear
6. Admitted Power:2W

7. Operating Temp.: -20°C ~ +65°C

