

Operational Description of AFT-RW404

Usage

to be installed in Car Audio device for use in. phone link.

2. ELECTRICAL CHARACTERISTICS

2-1. Absolute Maximum Ratings

Items	Conditions
Storage Temperature	-40 ~ +85 [°C]
Storage Humidity	~ 90 [%] RH (no-condensing)

Pin No. / Pin Name	Conditions
33. WL_3V3	-0.3 ~ 5.0 [V]
38. WL_1V8_3V3	-0.3 ~ 5.0 [V]
32. WL_VIO_1	-0.3 ~ 3.6 [V]
39. WL_VIO_2	-0.3 ~ 3.6 [V]
--. Digital Input Pins	$V_{SS}-0.3 \sim V_{DD}+0.3$ [V] ^{*)}

Note 1: The input maximum voltage must not exceed the VDD absolute maximum voltage.

2-2. Operating Conditions

Items	Conditions
Operating Temperature	Nominal: +15 ~ +35 [°C] Extreme: -40 ~ +85 [°C]

Pin No. / Pin Name	Conditions
33. WL_3V3	Nominal: 3.3 [V] Extreme: 3.3 ± 3 [%]
38. WL_1V8_3V3	Nominal: 3.3 [V] Extreme: 3.3 ± 0.1 [V]
32. WL_VIO_1	Nominal: 3.3 [V] Extreme: 3.3 ± 0.1 [V]
39. WL_VIO_2	Nominal: 3.3 [V] Extreme: 3.3 ± 0.1 [V]

Antenna type

PCB F-inverted antenna

Max Output

15dBm

Other

IEEE std 802.11b

Data Rate	Modulation
1 Mbps	BPSK
2 Mbps	QPSK
5.5 Mbps	CCK
11 Mbps	CCK

IEEE std 802.11g

Data Rate	Modulation	Coding Rate
6 Mbps	BPSK	1/2
9 Mbps	BPSK	3/4
12 Mbps	QPSK	1/2
18 Mbps	QPSK	3/4
24 Mbps	16QAM	1/2
36 Mbps	16QAM	3/4
48 Mbps	64QAM	2/3
54 Mbps	64QAM	3/4

IEEE std 802.11n

MCS	Data Rate		Modulation	Coding Rate
	GI = 800 [ns]	GI = 400 [ns]		
0	6.5 Mbps	7.2 Mbps	BPSK	1/2
1	13.0 Mbps	14.4 Mbps	QPSK	1/2
2	19.5 Mbps	21.7 Mbps	QPSK	3/4
3	26.0 Mbps	28.9 Mbps	16QAM	1/2
4	39.0 Mbps	43.3 Mbps	16QAM	3/4
5	52.0 Mbps	57.8 Mbps	64QAM	2/3
6	58.5 Mbps	65.0 Mbps	64QAM	3/4
7	65.0 Mbps	72.2 Mbps	64QAM	5/6

Operation Frequency:26MHz

Antenna Gain: -4.28(dBi)