

FJ3

Regulatory Bluetooth Antenna Information

(English Language Required for Regulatory Review / Approval)

Brand Name	Quanta
Model Name	FJ3- Bluetooth
Antenna Vendor	Wha Yu
Antenna Part Number	DQ652014800
With Bluetooth Module	☐
(Check Box)	

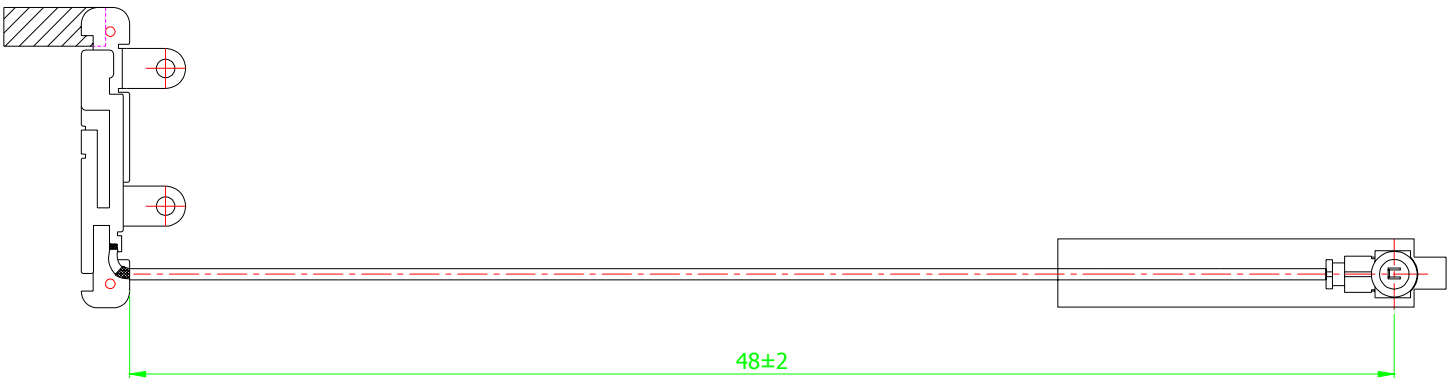
Antenna Information

Section 1. Antenna Assembly Specifications

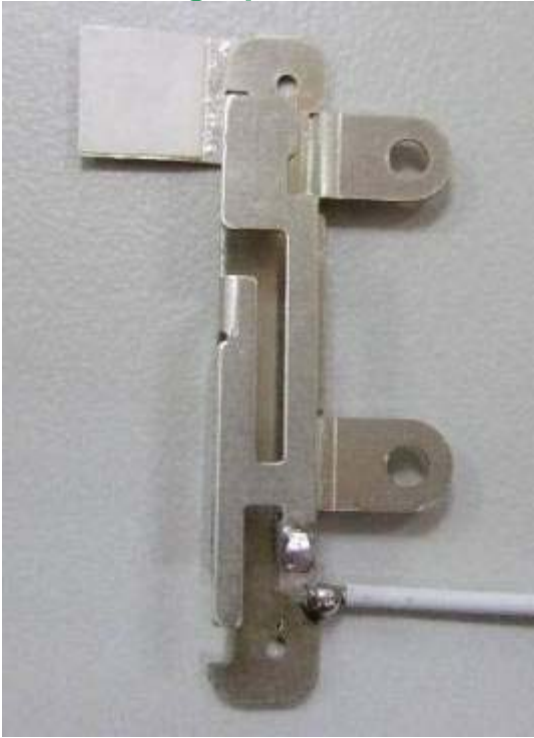
Antenna Assembly Summary:

1A Antenna Part Number	1B Manufacture	1C Antenna Type	1D Cable Assembly Part Number and Information	1E Peak Gain W/ Cable loss (dBi)
Blyetooth Antenna Vendor P/N: C680-520148-A QCI P/N: DQ652014800	Whayu	PIFA (RoHS: Yes)	(P/N: U.FL-2LP-066) 50 ohm Coaxial. length:5.6 cm diameter: 1.13mm Connector: HRS (RoHS: Yes)	2400-2500MHz -0.41 dBi (peak)

Section 2. Dimensioned Photos or Drawings of Antennas
The dimensioned drawing of Bluetooth antenna



The Photograph of antenna



Section 3. Radiation characteristics of antennae Loaded in Host Platform

2400-2500MHz radiation characteristic

Antenna Peak Gain & Average Gain Test Result

X-Y

Antenna	Peak Gain (dBi)			Average Gain (dBi)		
Frequency (GHz)	2.4	2.45	2.5	2.4	2.45	2.5
Bluetooth Antenna	-1.15	-1.58	-2.57	-6.28	-6.65	-6.77

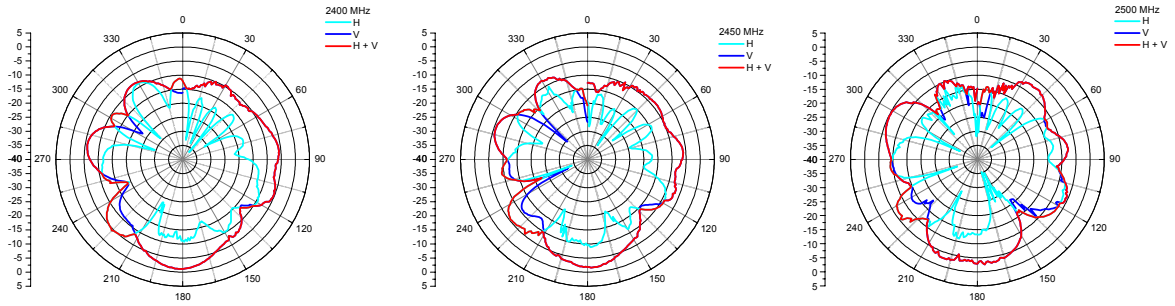
Y-Z

Antenna	Peak Gain (dBi)			Average Gain (dBi)		
Frequency (GHz)	2.4	2.45	2.5	2.4	2.45	2.5
Bluetooth Antenna	-1.90	-1.00	-1.02	-5.75	-5.32	-6.10

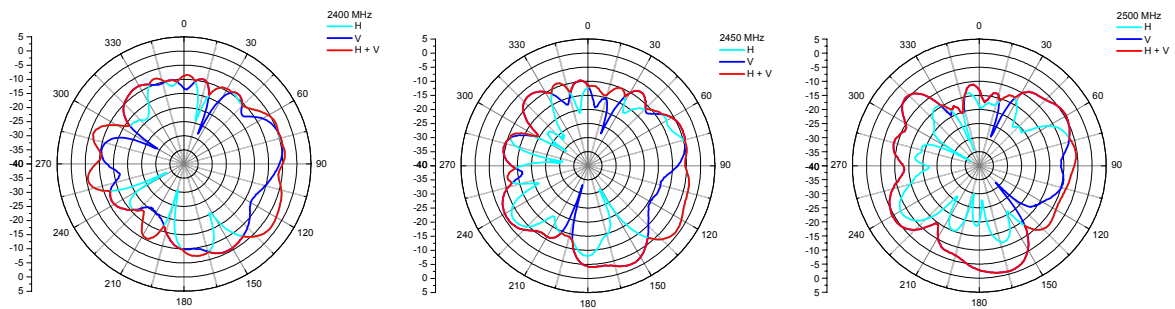
X-Z

Antenna	Peak Gain (dBi)			Average Gain (dBi)		
Frequency (GHz)	2.4	2.45	2.5	2.4	2.45	2.5
Bluetooth Antenna	-0.58	-1.34	-0.83	-4.20	-4.91	-5.64

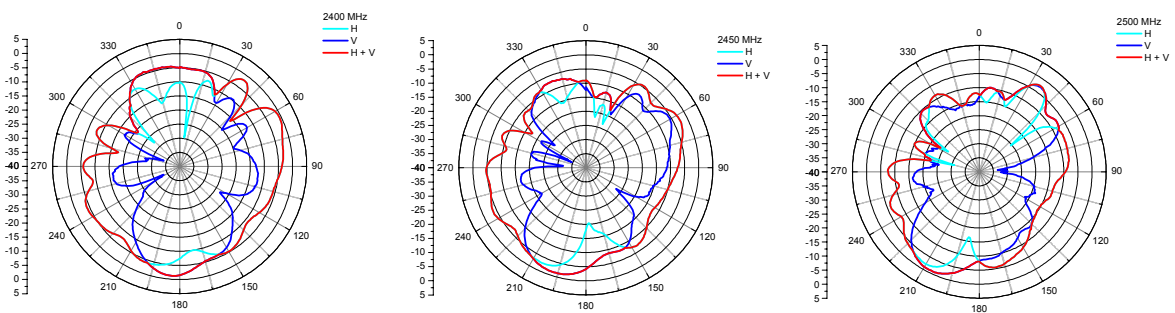
X-Y Antenna Patten



Y-Z Antenna Patten



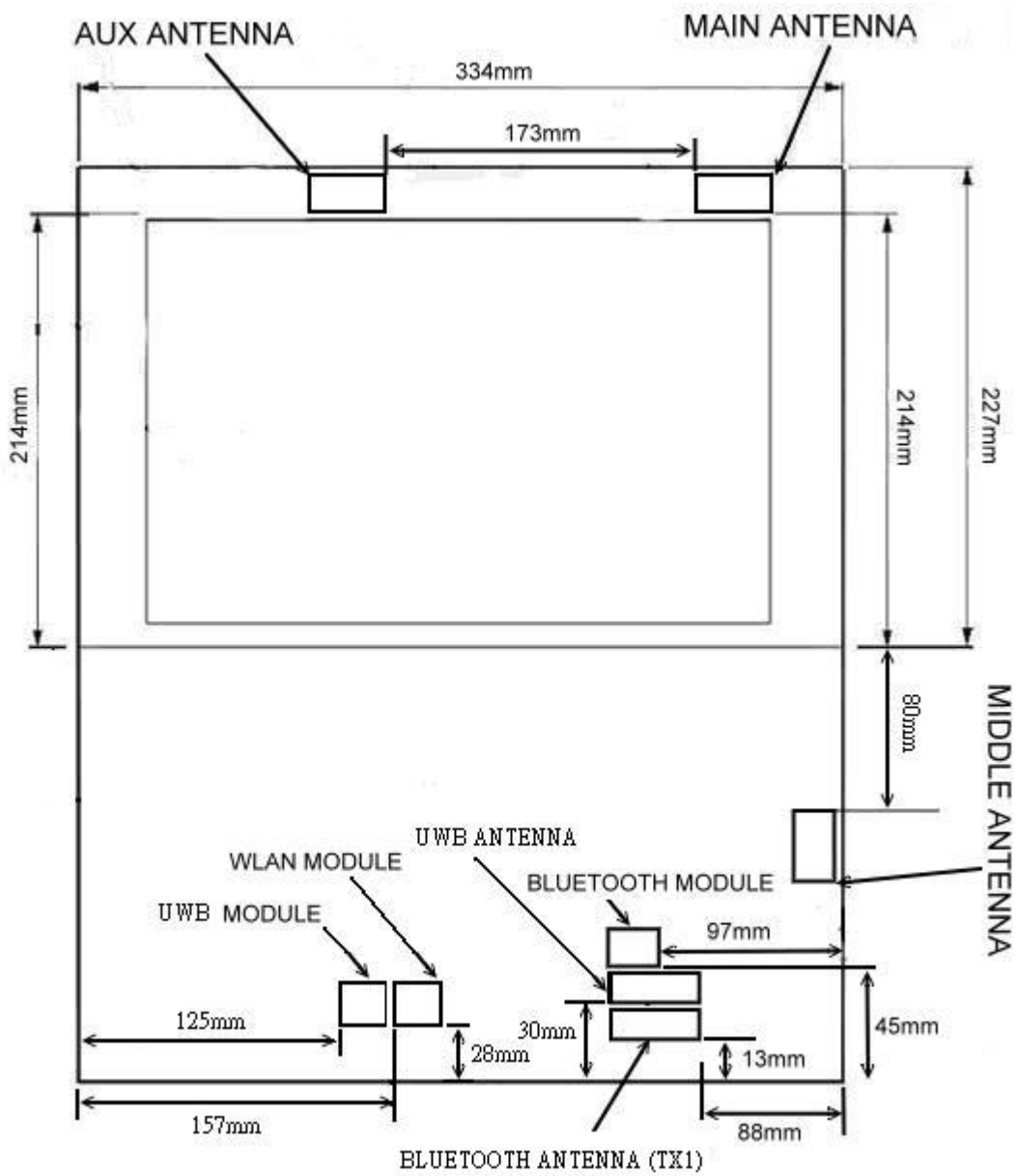
X-Z Antenna Patten



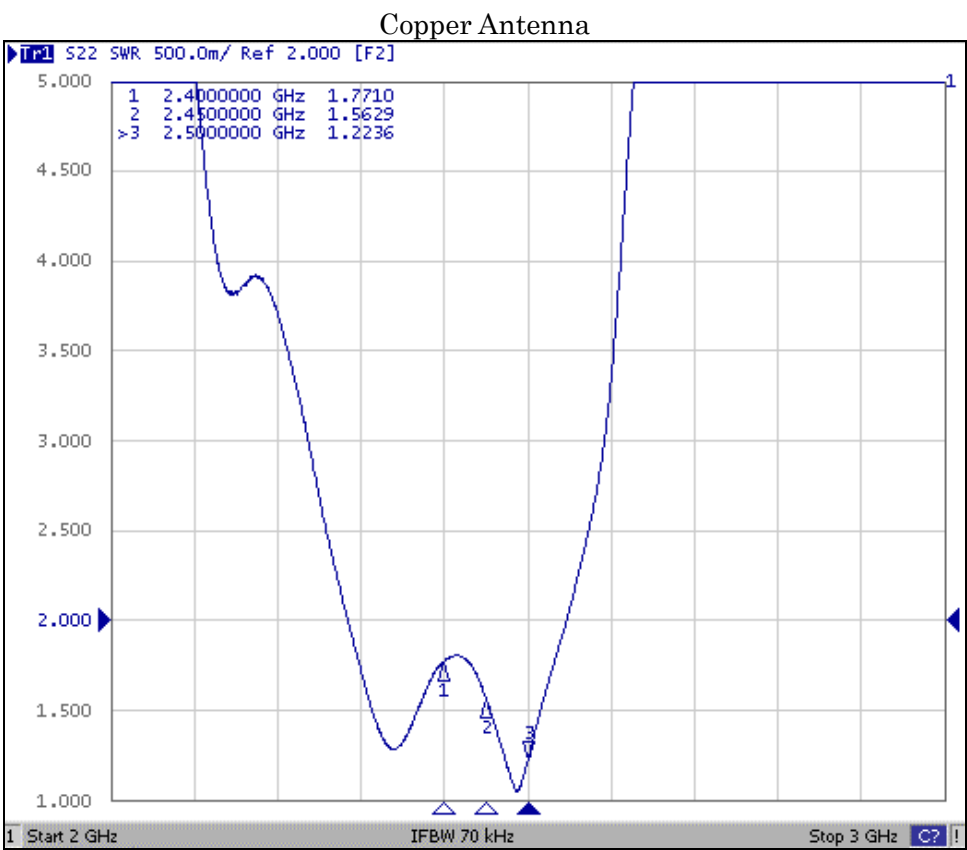
Section 4. Diagram of Co-Location Antenna Separation

Indicate distance between WLAN module antennas and Bluetooth/other radio antenna element.

(Note: Due to the evolving rules regarding co-location, each platform will need to be reviewed on a case by case basis)



VSWR Measurement Results



VSWR Measurement Results

Antenna	VSWR		
Frequency (GHz)	2.4	2.45	2.5
Copper Antenna	1.77	1.56	1.22