


2. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

The EUT is a WLAN operating over the 2400 to 2483.5 MHz band with an output power of 17.2 dBm (52.5 mW). The highest antenna gain, including coaxial feed cable, is 17.8 dBi.

Below is a summary of the schematic changes made to the device.

- (1) Optimized Power over Ethernet
- (2) Optimized RF section for RX sensitivity – component value changes, etc.
- (3) Changed from Molex to Tyco RJ-45 connector

Additional antennas and antenna types are added, as follows:



RF Exposure Antenna Summary

FCC ID: **H9PCCRF5020**

Output Power: 57.5 mW

WLAN RF Port

Class II Permissive Change

Network Systems Organization

Source Based

AP DC Factor: 1.000

Remote DC Factor: 1.000

Mobile Antennas (R>2m)

Ant No	Antenna Desc.	Symbol P/N	Type	Gain (dBi)	Cable Loss (dB)	Net Gain	Pout (dBm)	MPE (cm)	TR Status	Device Use
01.	Panel 8.5, 120° Sector	ML-2499-11PNA2-01	Panel	11.2	2.68	8.5	14.92	5.7	See # 11	Fixed Pt - MultiPt
02.	Panel 9.5, 65°	ML-2499-12PNA2-01	Panel	12.2	2.68	9.5	14.92	6.4	See # 11	Fixed Pt - MultiPt
03.	Panel 6.3, 80°, Diverse	ML-2499-7PNA2-01	Panel	7.6	1.34	6.3	16.26	4.4	See # 11	Fixed Pt - MultiPt
04.	Rubber Duck, Cushcraft	ML-2499-APA2-01	Dipole	2.0	0.00	2.0	17.60	2.7	See # 9	Fixed Pt - MultiPt
05.	Pipe Bomb 11" x 48"	ML-2499-HPA3-01	Dipole	6.2	1.34	4.9	16.26	3.7	See # 9	Fixed Pt - MultiPt
06.	Panel HD 6.3, 65°	ML-2499-PNAHD-01	Panel	7.6	1.34	6.3	16.26	4.4	See # 11	Fixed Pt - MultiPt
07.	Patch, 2.3, 48"	ML-2499-SD3-01	Patch	3.6	1.34	2.3	16.26	2.8	Tested	Fixed Pt - MultiPt
08.	Patch, Diversity	ML-2499-SDD1-01	Patch	3.6	1.34	2.3	16.26	2.8	See # 7	Fixed Pt - MultiPt
09.	Dipole 25" x 7"	ML-2499-BMMA1-01	Dipole	7.0	0.20	6.8	17.40	4.7	Tested	Fixed Pt - MultiPt
10.	Dish, 18, 10°	ML-2499-BPDA1-01	Dish	24.0	6.17	17.8	11.43	16.7	Tested	Fixed Pt - Pt
11.	Panel 14.5, 31°	ML-2499-BPNA3-01	Panel	14.5	0.33	14.2	17.26	10.9	Tested	Fixed Pt - Pt
12.	Yagi, 13.6, 34°	ML-2499-BYGA2-01	Yagi	13.9	0.33	13.6	17.26	10.2	Tested	Fixed Pt - Pt