

PROFESSOR TECHNOLOGY CO.,LTD..

INTRODUCTION

MIMO Omni Panel Combo Antenna

CP66(4x4,2x2)-4x5G/LTE-2xWiFi-CFD195-5M-SMAx6

Permanent Screw (M20x1.5P) and Wall,Pole,Window Mounting Combo Antenna

6-Cables : 4xLTE/5G (4x4) + 2xWiFi (2x2)

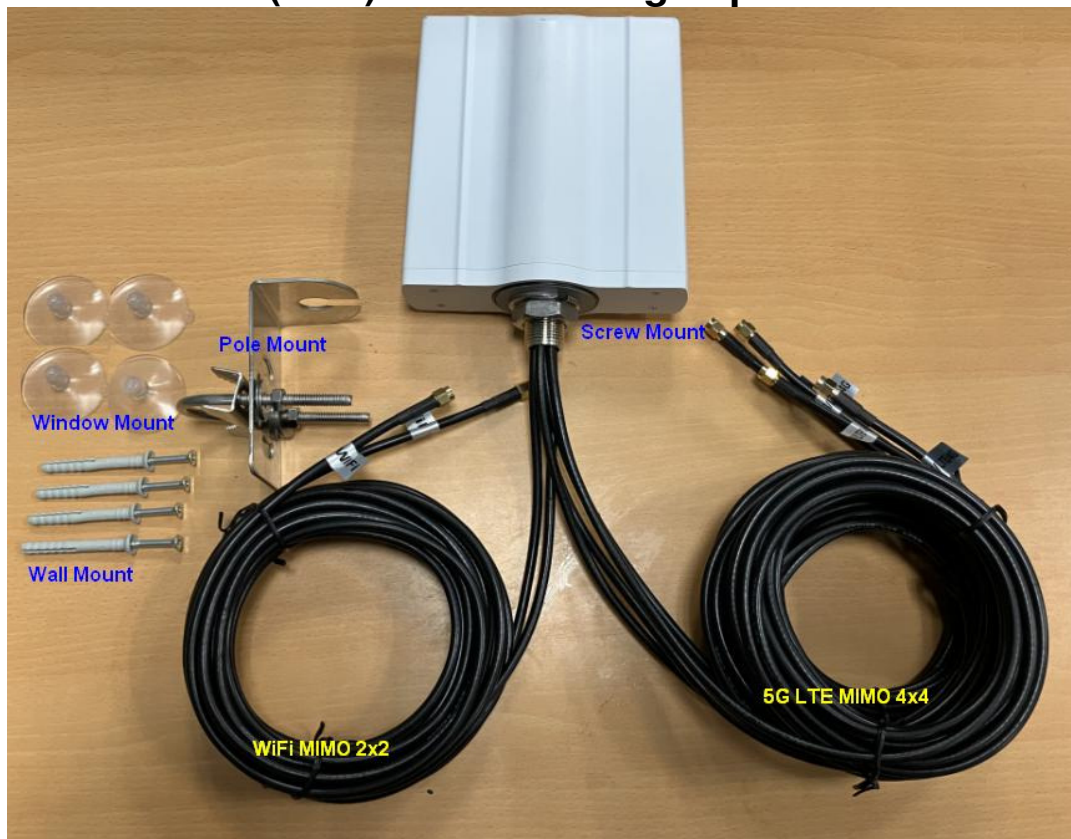
**Cable1~4 5G/LTE/4G/3G CFD195 Low less 5M(16.4ft) SMA/M
600-960/1710-2170/2400-2700/3200~3800MHz 3-5dBi**

**Cable5~6 WiFi/WLAN CFD195 Low less 5M(16.4ft) RPSMA/M
2.4~2.5/5.0~5.2/5.7~6.0GHz 3-5dBi**

1. INERAL DESCRIPTION

Model No	Products P/N
CP66(4x4,2x2)-4xLTE/5G+2xWiFi-CFD195-5M-SMA/Mx6	CP66-5M-V1

Below is a table summarizing the 5G/LTE/4G/3G/GSM +WiFi/WLAN (6in1) antenna design specification.



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2.Cable 1-4: (4x4) 5G LTE

2.1 5G/LTE/4G/3G/GSM Multi-band Antenna Electrical Properties

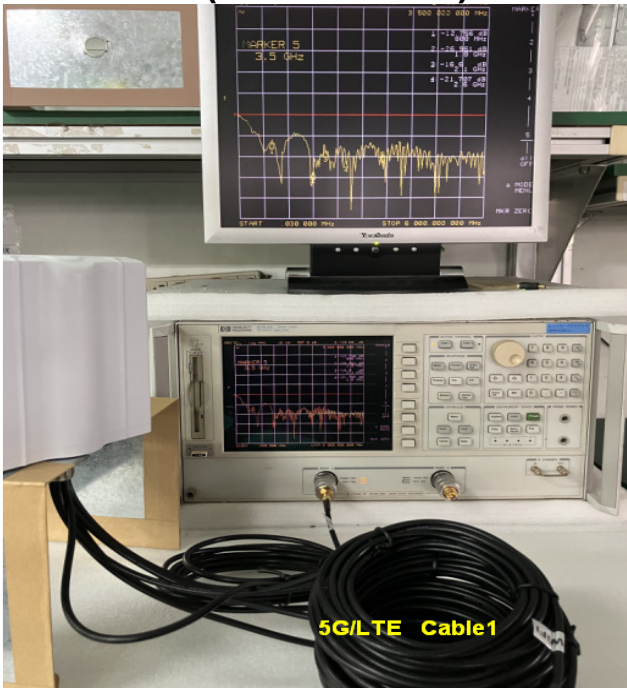
Parameter	Description
Communication System	5G/LTE/4G/3G/AMPS/GSM/DCS/UMTS
Frequency Band (MHz)	600~960/1710~2170/2400~2700/3200~3800MHz
Average Efficiency	75%/80%/70%80%
Average Gail	3.0~5.0dBi
Nominal Impedance	50 ohm
Polarization	Vertical
Return Loss (Check test Data)	960MHz(-22.638dB),1767MHz(-30.942dB), 2674MHz(-48.280dB),3400MHz(-24.318dB)
V.S.W.R <1.5:1	960MHz(1.159:1)1767MHz(1.058:1) 2674MHz(1.008:1)3400MHz(1.130:1)
Reflection coefficient	960MHz(0.074),1767MHz(0.028), 2674MHz(0.004),3400MHz(0.061)

2.2 5G/LTE/4G/3G/2G Multi-band Antenna Mechanical Properties

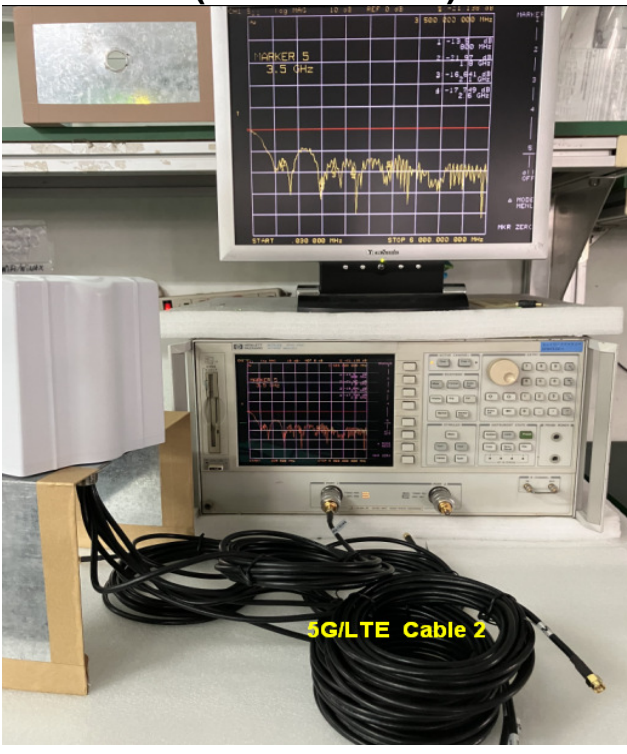
Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type (M20x1.5P) Slotted
Mounting	Screw,Wall,Pole and Window
Antenna size	L:140mm x W:52.4mm x H:148mm
Antenna Material	PC & ABS
Antenna cable	CFD195 Low less
Connector Type	SMA 180°(Male)
Antenna Cable Total Length	5000mm (16.4ft)
Antenna Color	White
Waterproof	100% waterproof.(IP66~IP67)
Operating Temperature Range	-30 °C~+70 °C
Storage Temperature Range	-40 °C~+80 °C
Shock (Drop Test)	100cm drop on concrete

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Cable 1: 5G/LTE/4G/3G/GSM Multi-Band Network analyzer test HP8753E (16-Jun-2022)

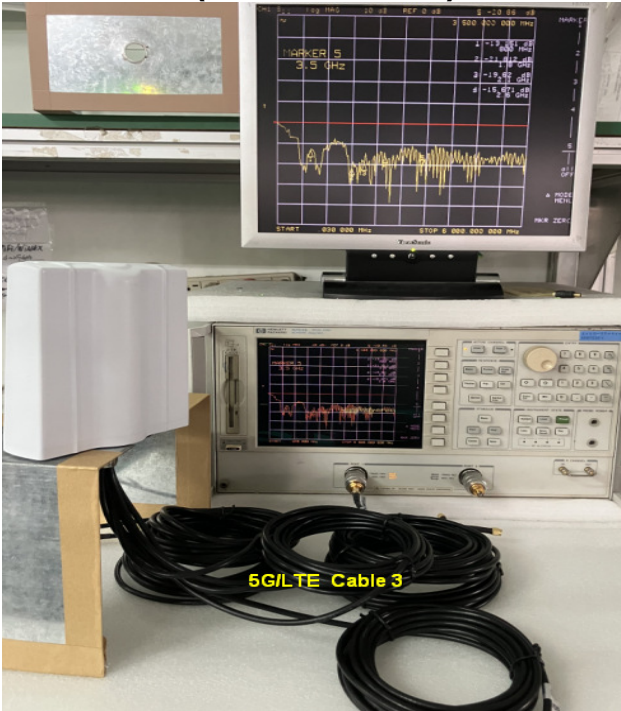


Cable 2: 5G/LTE/4G/3G/GSM Multi-Band Network analyzer test HP8753E (16-Jun-2022)

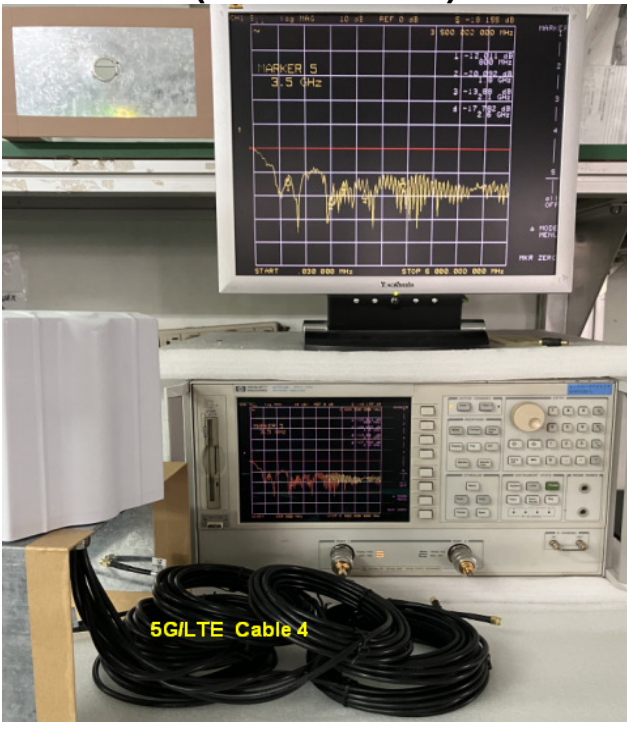


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Cable 3: 5G/LTE/4G/3G/GSM Multi-Band Network analyzer test HP8753E (16-Jun-2022)



Cable 4: 5G/LTE/4G/3G/GSM Multi-Band Network analyzer test HP8753E (16-Jun-2022)



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3. Cable 6-7: MIMO(2x2) WiFi/WLAN

3.1 WiFi/WLAN 2.4/5.0/5.8 GHz Antenna Electrical Properties

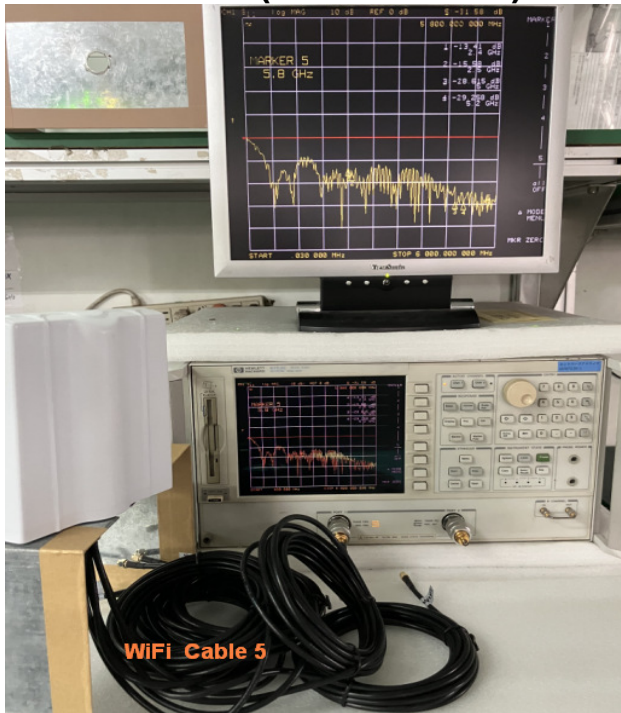
Parameter	Description
WiFi / WLAN	Wireless LAN (2.4/5.0/5.8GHz)
Frequency Band	2.4~2.5 /5.0~5.2 /5.7~6.0GHz
Nominal Impedance	50 ohm
Polarization	Vertical
Antenna Gain	2.0~5.0 dBi
Return Loss (Check test Data)	2475MHz (-23.015dB),5000MHz(-13.531dB)
V.S.W.R <1.5:1	2475MHz (1.151:1),5000MHz(1.534:1)
Reflection coefficient	2475MHz (0.070),5000MHz(0.211)

3.2 WiFi /WLAN 2.4/5.0/5.8GHz Antenna Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type (M20x1.5P) Slotted
Mounting	Screw,Wall,Pole and Window
Antenna size	L:140mm x W:52.4mm x H:148mm
Antenna Material	PC & ABS
Antenna cable	CFD195 Low loss
Connector Type	RP SMA 180°(Male)
Antenna Cable Total Length	5000mm (16.4ft)
Antenna Color	White
Waterproof	100% waterproof.(IP66~IP67)
Operating Temperature Range	-30 °C~+70 °C
Storage Temperature Range	-40 °C~+80 °C
Shock (Drop Test)	100cm drop on concrete

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Cable 5 :WiFi/WLAN 2.4/5.0/5.8GHz Multi-Band Network analyzer test HP8753E(16-Jun-2022)



Cable 6 :WiFi/WLAN 2.4/5.0/5.8GHz Multi-Band Network analyzer test HP8753E(16-Jun-2022)

