



■ ELECTRICAL SPECIFICATION

GPS ANTENNA

PARAMETERS	VALUE	UNIT
Frequency Range	1561.098 ~ 1606	MHz
Gain	28 ± 2	dB
VSWR, max	2.0	-
Polarization	RHCP	-
Impedance	50	Ω
Noise Figure, max	1.5	dB
Supply Voltage	3 ~ 5	VDC
Current Consumption, max	15	mA

LTE MIMO ANTENNA

PARAMETERS	VALUE			UNIT
Frequency Range	698 ~ 960	1710 ~ 2690	2900 ~ 3800	MHz
Gain, typ	4.0			dBi
VSWR, max	2.0			-
Polarization	Linear			-
Impedance	50			Ω

WiFi ANTENNA

PARAMETERS	VALUE		UNIT
Frequency Range	2400 ~ 2483.5	4900 ~ 5925	MHz
Gain, typ	4.0		dBi
VSWR, max	2.0		-
Polarization	Linear		-
Impedance	50		Ω

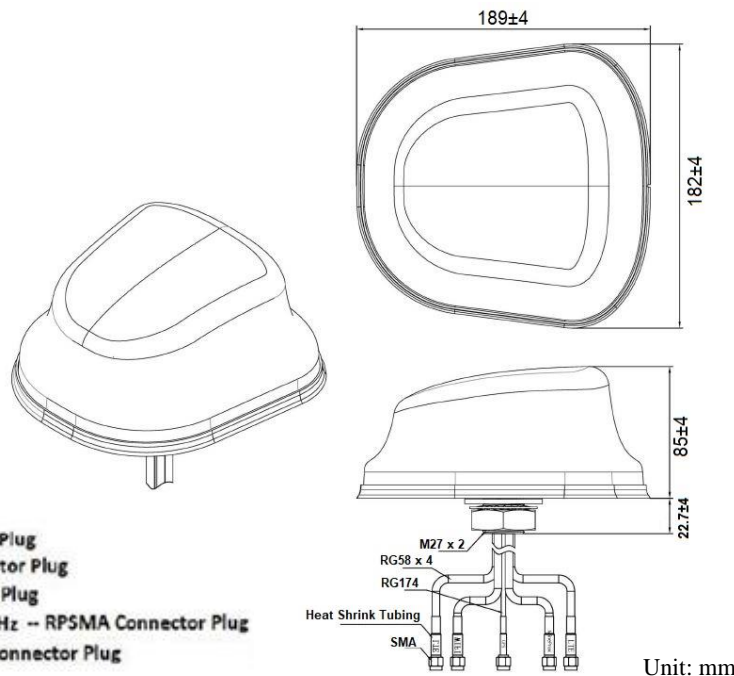
MineProx ANTENNA

PARAMETERS	VALUE	UNIT
Frequency Range	806 ~ 960	MHz
Gain, typ	4.0	dBi
VSWR, max	2.0	-
Polarization	Linear	-
Impedance	50	Ω

MECHANICAL AND ENVIRONMENTAL

PARAMETERS	VALUE	UNIT
Relative Humidity, max	95	%
Ingress Protection (Exclusive Cable Outlet)	IP67	-
Connector	SMA	-
Cable	Type @ GPS	RG174 x 1
	@ LTE and WIFI	RG58 x 4
	Length	4880
Material	PC / ABS	-
Vibration (With 1.5 mm Amplitude 2 hours)	10 ~ 55	Hz
Mounting Method	Screw	-
Operating Temperature Range	-40 ~ +85	$^{\circ}\text{C}$
RoHS Compliant	YES	-

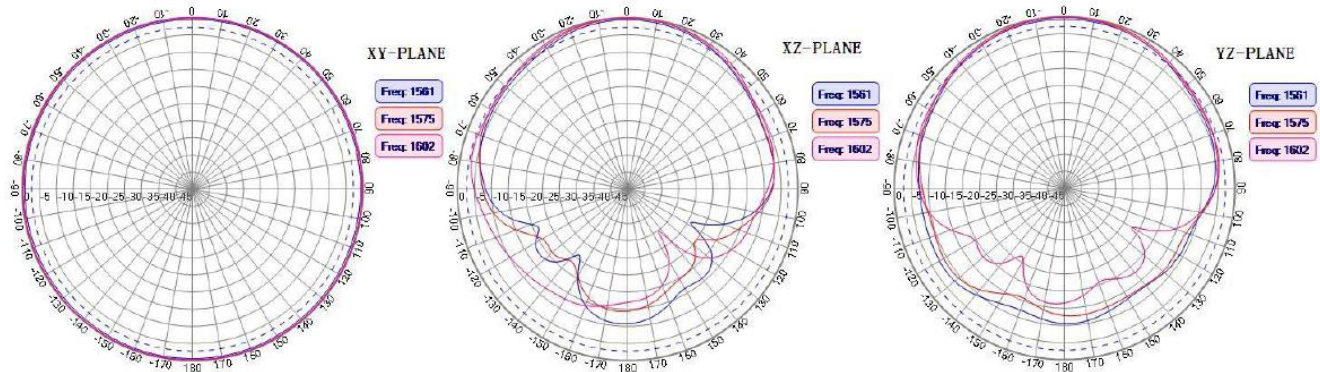
■ DIMENSIONS



- 1: LTE -- SMA Connector Plug
- 2: Wi-Fi-- RPSMA Connector Plug
- 3: GPS -- SMA Connector Plug
- 4: MineProx 806-960 MHz -- RPSMA Connector Plug
- 5: LTE diversity -- SMA Connector Plug

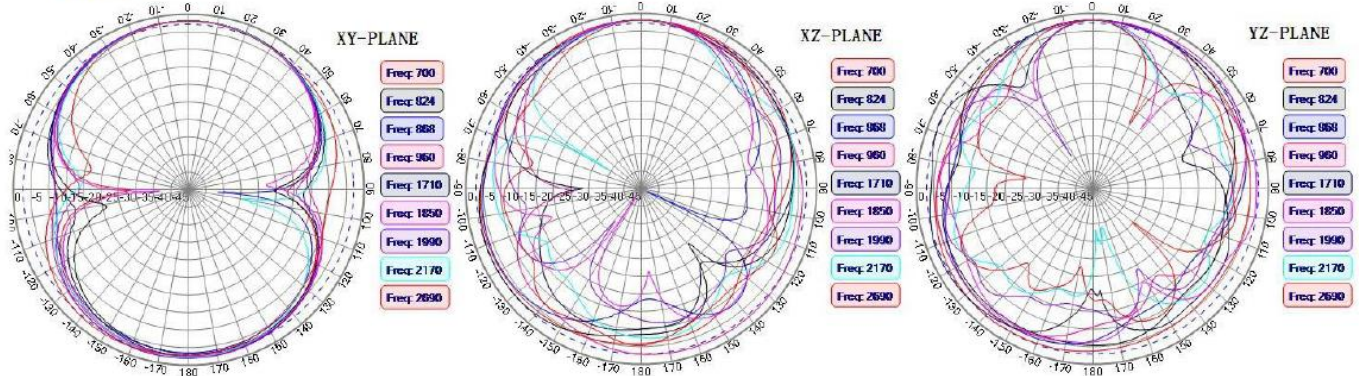
■ RADIATION PATTERN

GNSS ANTENNA

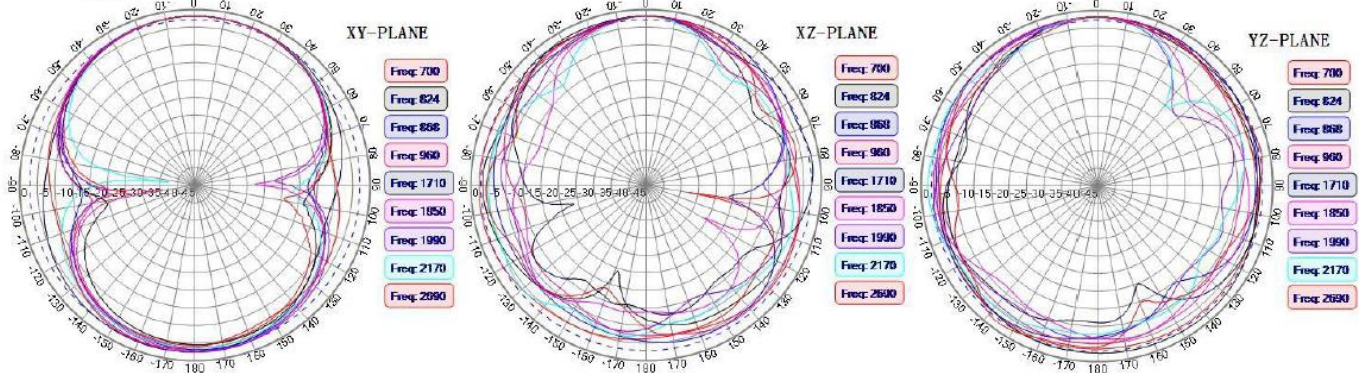


LTE ANTENNA

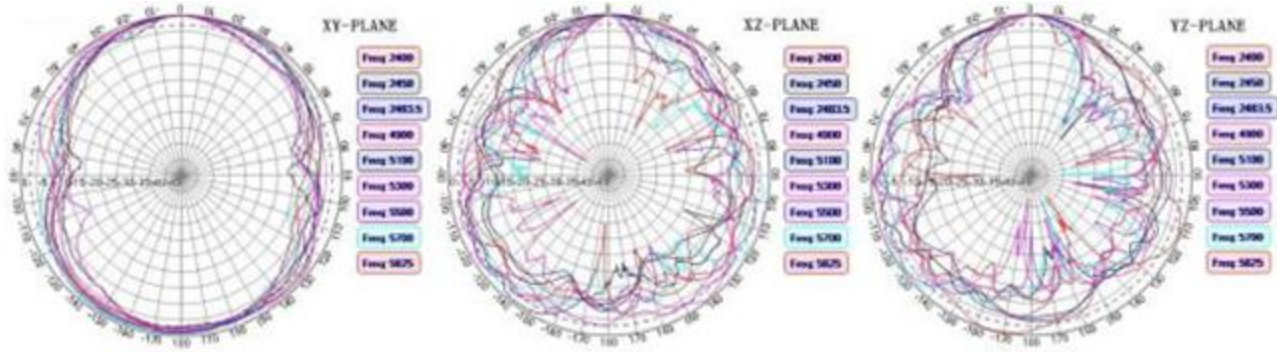
LTE -1



LTE -2



WiFi ANTENNA



■ APPROVAL

RALTRON	
DRAWN BY:	AR, November 23, 2020
APPROVED BY:	CP, November 23, 2020
REVISION:	A, Initial Release

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