

# V2X Vehicle Antenna

## ETF-ANT-O

The ETF-ANT-O series antenna is mag mount and provides multiband coverage on V2X at 5.9 GHz and GNSS.

This multiband antenna mounts easily to a roof, trunk or bulkhead. GPS band, connectors, connector types, cables, and cable lengths are configurable according to your needs.

The antennas are enclosed in a weatherproof radome (195 \* 206 \* 193 mm) and is extremely weather resistant with IP67 rating for dust and water ingress.

For best performance, the antenna should be mounted on a metal surface or ground plane.



### Three-in-one antenna housing

- 2x V2X Antennas
- 1x GNSS Antenna

## Mechanical & Environment

Dimension	195 (W) x 206 (H) x 193 (D) mm
Weight	500g (excluding cables)
Color	Black
Mounting	Magnet (6-point)
Operating Temperature	-40°C to +75°C
Storage Temperature	-40°C to +85°C
Humidity	Non-condensing +55°C/95% RH
Water/Dust Ingress	IP67

Inquire now through email.

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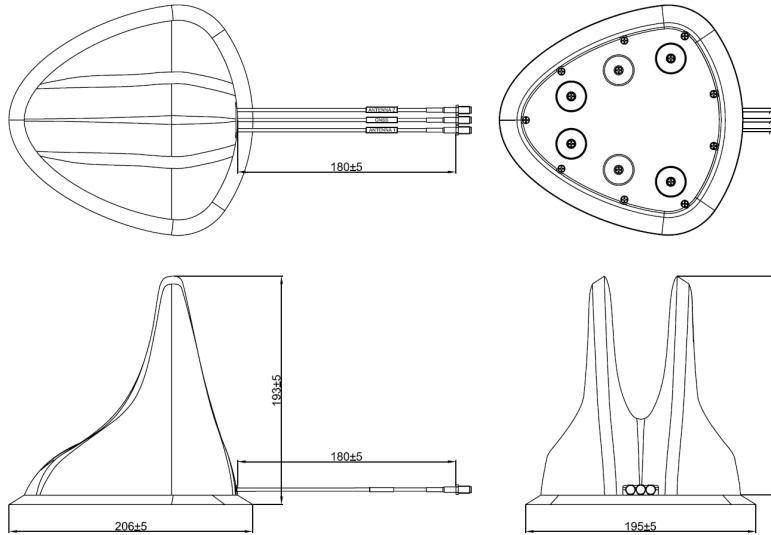
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# V2X Vehicle Antenna

ETF-ANT-O

## Architecture



## Model Configuration Options

Please specify model configuration when ordering.

Example: ETF-ANT-O01-A-S-F-2-05M

Model No.	GPS Band		Connector		Connector Type		Cable		Cable Length	
ETF-ANT-O01	A	L1	S	SMA	F	Female	1	LL-195 @5.8GHz : -0.98dB/M	01M	1 Meter
	B	L1+L2	N	N	M	Male	2	LMR-200 @5.8GHz : -0.87dB/M	05M	5 Meter
	C	L1+L5	F(Key code)	Fakra (Key Code)	-	-	3	RG-316D <sup>1</sup> @5.8GHz : -2.34dB/M	10M	10 Meter

1. GPS cable is RG-316D by default.
2. SMA connector and LMR-200 cable combination is recommended.

## V2X Antenna

Frequency Range	5850-5925 MHz
Gain	8 dBi ±1
VSWR	2:1
Polarization	Linear
Impedance	50 ohm
Radiation Pattern	Omni-Directional
Type	Dipole Array
Power	10 Watt

## GNSS Antenna

Frequency Range	L1: 1563-1587 MHz*
Gain	4 dBi
VSWR	2:1
Polarization	R.H.C.P
Impedance	50 ohm
LNA	30 dB ±3
Gain Block	∇ AMP » Filter » AMP
Input Voltage	DC +2.7V to +9.0V
Current	20mA Max.

\*Other GPS band options available.

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For more info

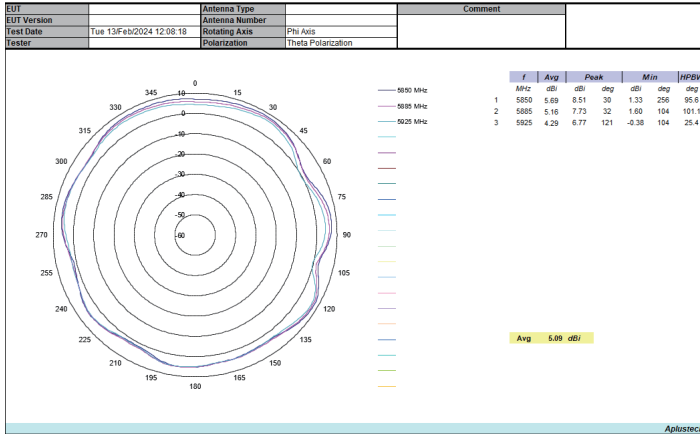


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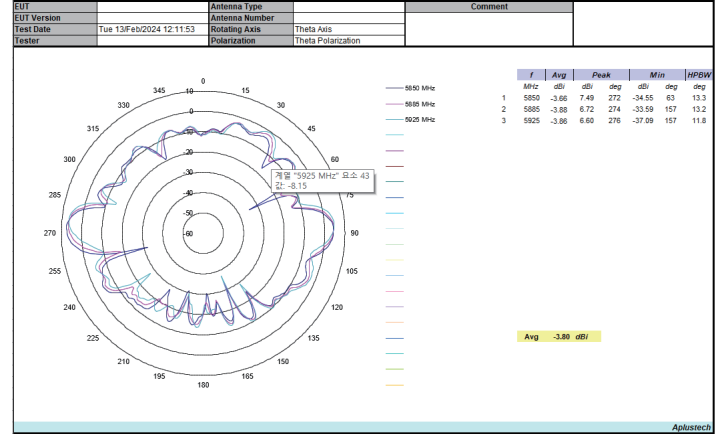
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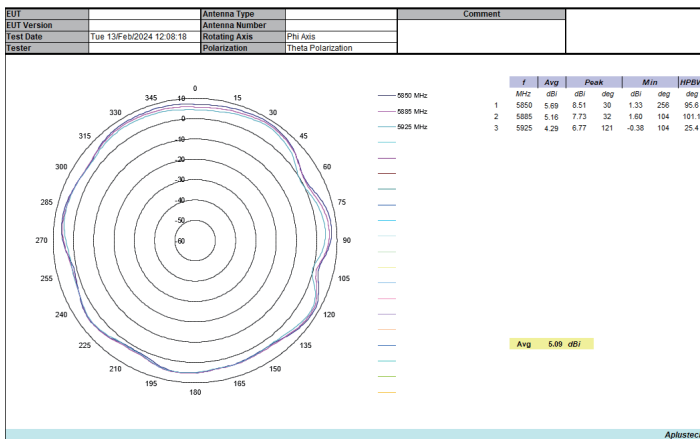
## Radiation Pattern, V2X



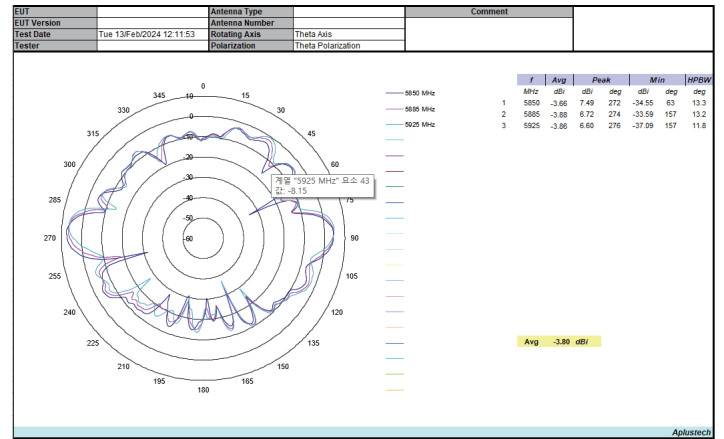
[ Antenna-1. Azimuth Plot ]



[ Antenna-1. Elevation Plot ]

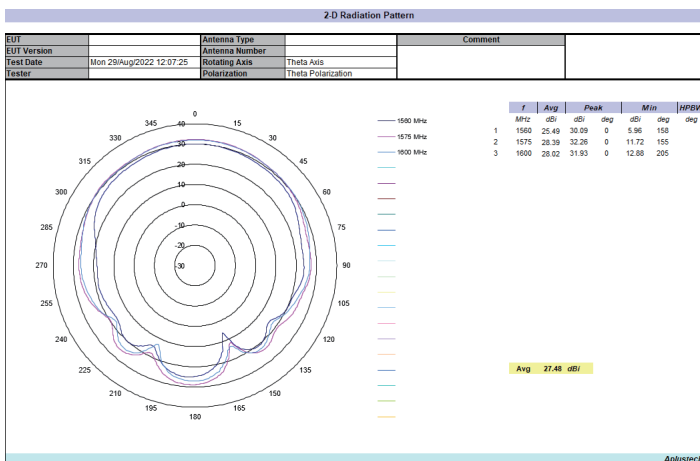


[ Antenna-2. Azimuth Plot ]



[ Antenna-2. Elevation Plot ]

## Radiation Pattern, GNSS



[ Elevation Plot ]

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