



*GNSS Antennas*

**THA-X603A**

Four-system Full-frequency External  
Handheld Antenna

# THA-X603A Helix Antenna

THA-X603A is an external handheld antenna that covers four systems GPS, BDS, GLONASS and GALILEO. It is widely used in industries such as surveying, mapping, navigation, and dispatching. It is particularly suitable for various applications in lightweight drones, including aerial photography, remote telemetry, disaster monitoring, traffic patrol and security surveillance.

## SPECIFICATION

### SIGNAL TRACKING

|         |            |
|---------|------------|
| GPS     | L1/L2/L5   |
| GLONASS | L1/L2/L3   |
| GALILEO | E1/E5a/E5b |
| BDS     | B1/B2/B3   |

### ANTENNA FEATURE

|                   |      |
|-------------------|------|
| Nominal Impedance | 50Ω  |
| Polarization      | RHCP |
| Axial Ratio       | 3dB  |
| Azimuth Coverage  | 360° |
| Maximum Gain      | 2dBi |
| Output/Input VSWR | 2.0  |

### ANTENNA FEATURE

|              |       |
|--------------|-------|
| LNA Gain     | 232dB |
| Noise Figure | 2dB   |

|                    |                   |
|--------------------|-------------------|
| Operation Voltage  | +3.3VDC to +12VDC |
| Operation Current  | 35mA              |
| Output/Input VSWR  | 2.0               |
| Group Delay Ripple | 5ns               |

### MECHANICAL

|            |                                |
|------------|--------------------------------|
| Dimensions | φ27.5mm*59mm                   |
| Connector  | SMA Male                       |
| Weight     | 25g                            |
| Mounting   | Refer to installation guidance |

### ENVIRONMENTAL

|                       |                    |
|-----------------------|--------------------|
| Operating Temperature | -40 to +70         |
| Storage Temperature   | -55 to +70         |
| Humidity              | 95% non-condensing |
| Protection            | IP67               |

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Manufacturers may update parameters at any time, please refer to the latest product information.



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