



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	23±2dB
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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