D-Helix™ Antenna HX-CH7603A
Harxon Patented D-QHA™ Technology Inside

INNOVATIVE PATENTED D-QHA TECHNOLOGY
WITH SUPERIOR TRACKING PERFORMANCE

ADVANCED D-QHA TECHNOLOGY
Harxon’s D-QHA technology significantly enhances the low-elevation angle tracking capabilities, it ensures D-Helix™ Antenna more stable performance of wide-angle circular polarization (WACP), and smaller antenna phase center deviation (PCV), which ensures a more precise positioning accuracy.

TRACKING IN CHALLENGING ENVIRONMENTS
D-Helix™ Antenna is able to track any visible satellites under challenging conditions, providing the positioning solutions with higher precision and reliable data. The ability to track low elevation satellites while maintaining a high gain makes D-Helix™ Antenna an excellent choice for any applications where the sky is partially visible, such as plant protection, tree lines, also for UAV power patrol, GIS surveying where high precision operations are needed.

STRONG ANTI-INTERFERENCE PERFORMANCE
The antenna LNA features an excellent out-of-band rejection performance, which can suppress the interference of magnetic disturbance, providing the stability and reliability of GNSS signals. Also it effectively avoids disconnection dangerous when UAVs are operated under tower and electric power patrol.

HARXON’S TOUGHEST PRECISION ANTENNA
D-Helix™ Antenna is the toughest precision antenna Harxon has designed to date, which features the latest low-wind resistance design. Moreover, D-Helix™ Antenna features ultra-durable watertight enclosures, Its IP67 ruggedized design can protect it from dust and water, as well as a standard SMA male connector for easy integration.

KEY FEATURES
- Support GPS, Glonass, Galileo, Beidou, QZSS and SBAS signal reception
- D-QHA technology ensures an exceptional low elevation satellite tracking
- Stable phase center guarantees the accuracy of positioning within millimeter-level
- Strong anti-interference ability to endure the harshest operating environments
- 38g light weight for lower power consumption
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**PERFORMANCE**

<table>
<thead>
<tr>
<th>Signal Received</th>
<th>GPS</th>
<th>L1/L2</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLONASS</td>
<td>L1/L2</td>
<td></td>
</tr>
<tr>
<td>GALILEO</td>
<td>E1</td>
<td></td>
</tr>
<tr>
<td>BDS</td>
<td>B1/B2/B3</td>
<td></td>
</tr>
<tr>
<td>QZSS</td>
<td>L1/L2</td>
<td></td>
</tr>
<tr>
<td>SBAS</td>
<td>L1</td>
<td></td>
</tr>
</tbody>
</table>

Nominal Impedance: 50Ω

Gain at Zenith (90°):
- 1205-1278MHz: 4.2dBi (maximum)
- 1559-1610MHz: 3.8dBi (maximum)

LNA Gain: 33dB (typical)

Noise Figure: ≤1.5dB

Output/Input VSWR: ≤2.0

Operation Voltage: +3.3 to +12VDC

**MECHANICAL**

Dimensions: 440*75.2mm

Connector: SMA male

Weight: ≤38g

Mounting: 3*3/32" - 48*DP6mm (UNC)

Axial Ratio: ≤3dB

Gain at Zenith (90°):
- 1205-1278MHz: 4.2dBi (maximum)
- 1559-1610MHz: 3.8dBi (maximum)

**ENVIRONMENTAL**

Temperature:
- Operating: -40°C to +70°C
- Storage: -40°C to +70°C

Humidity: 95% non-condensing

Water/Dust Resistance: IP672

Regulatory Compliance: CE, RoHS

For the most recent details of this product:

**Structure & Phase Center Drawing (mm)**

- Undeclared tolerance: ±0.3mm

Advanced Technology to Empower Your Applications