Antenna Systems

Portable • Central Receive • Fixed Links • Airborne • Mobile
ENG Mobile

2A20SS/7A30SS
• 20 dBi @ 2 GHz
• 30 dBi @ 7 GHz
• Solid-state RF switching
• Quad polarization standard
• Low-profile, offset-fed design

20 dBi @ 2 GHz
30 dBi @ 7 GHz

Ellipse 2000
• 21 dBi @ 2 GHz
• 34 dBi @ 7 GHz
• Solid-state RF switching
• Quad polarization
• Low-profile, offset-fed design

ProStar 2A20/7A30
• 2 & 2.5 GHz
• 6.425 to 7.125 GHz
• Dual-band: 2/2.5 & 6.5/7 GHz
• 21 dBi @ 2 GHz
• 29 dBi @ 7 GHz
• RC, LC, and H Polarization
• High gain, low-profile, offset design

• Solid-state RF switching
• Quad polarization
• Low-profile, offset-fed design

GPS Tracking

Quick Track
• Integrated GPS Tracking Antenna using Wide Area Augmented Surface (WAAS)
• Frequency
• 2/2.5, 2/7
• 2.3 to 2.7 GHz
• Gain / Frequency
• 20 dBi @ 2 GHz
• 21 dBi @ 2.44 GHz
• 28 dBi @ 4.4 to 5.0 GHz
• Digital Ready 4/2 or 7/2 GHz BCD
• Continuous rotation
• Optional Omni antenna for close in operation

Sector Track
• Auto tracking GPS antenna for air to ground reception
• 1.99 to 2.5 GHz
• 13 dB Gain
• 4 sector antenna arrays
• Built-in computer, GPS receiver and integral compass

Horns

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Nominal Gain</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.70–2.0 or 2.0–2.7</td>
<td>13 or 16 dB Models</td>
</tr>
<tr>
<td>4.4 to 5.0</td>
<td>17 dB</td>
</tr>
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<td>6.4 to 7.125</td>
<td>19 dB</td>
</tr>
<tr>
<td>12.7 to 13.2</td>
<td>20 dB</td>
</tr>
<tr>
<td>14.5 to 15.7</td>
<td>20 dB</td>
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</table>

MegaHorn
• Ideal for portable and mobile production ENG applications
• High gain & lightweight
• Available with the MRC “Twist Lock” adapter or “N” connector
• Linear or circular polarization
• Switchable linear twist lock optional
• Pole mount option

Compact Sector
• 2 thru 7 GHz
• 9, 12, & 14.5 dBi Models
• Beamwidth: Elevation - 35, 18, or 9 degrees
• Azimuth - 100 degrees
• Vertical Polarization

Sector Scan II
• 2, 7, or 2/7 GHz
• 13 or 16 dB Models
• Flat panel design
• Lightweight & rugged
• Low wind loads
• Vertical, Horizontal, or Quad Polarization

Quad Sector Tx/Rx
• 1.99-2.50 GHz
• 16 dB Gain
• Four 90-degree sectors with dipole arrays
• Vertical polarization
• Selectable arrays from antenna controllers on receive model

Steerable

ProScan III
• 2/2.5, 6/7, 13 & 14 GHz
• 26 dB gain LNA (2 GHz)
• with remote 24/12 dB gain reductions switching on LNA/BDC
• 6/7 GHz and 13 GHz Dual BDC (7 GHz comes standard with a 9/125 digital-ready option)
• 1.4 Meter Cosecant squared surface
• Quad polarizations (H, V, LCP, RCP)

Ellipse DR II
• Gain/Frequency
• 23 dBi @ 2 GHz
• 34 dBi @ 7 GHz
• 36 dBi @ 13 GHz
• 38 dBi @ 14/15 GHz
• Single, dual, or tri-band
• Dual axis pan and tilt control
• Continuous rotation, solid-state switching
• H, V, LCP, RCP Polarization

UltraScan DR II
• Wideband, 2/2.5 GHz
• Dual band 2/7 GHz
• Triband 2/7/13 GHz
• 26 dB gain LNA
• All Solid State Switching
• LNB (7 & 13 GHz systems)
• Low noise amplifier and filter integrated into feed
• Low profile, Lightweight
• RC, LC, H, and V polarization

Sectorized

Sectorized Steerable

Frequency Nominal Gain
1.70–2.0 or 2.0–2.7 13 or 16 dB Models
4.4 to 5.0 17 dB
6.4 to 7.125 19 dB
12.7 to 13.2 20 dB
14.5 to 15.7 20 dB

Quad Sector Tx/Rx
**Omni-Directional**

- **Parabolic**
  - 1.7 to 1.99 GHz
  - 1.99 to 2.1 GHz
  - 2.1 to 2.3 GHz
  - 2.3 to 2.5 GHz
  - 2.3 to 2.7 GHz
  - 6.4 to 7.1 GHz
  - 2 or 5 dBi gain models
  - Connector, flange, or magnet mount

- **Colinear**
  - 1.7 thru 7 GHz
  - 2, 4.5, or 6 dBi gain models

- **OmniPole**
  - 1.7 to 1.99 GHz
  - 1.99 to 2.2 GHz
  - 2.2 to 2.5 GHz
  - 2.3 to 2.7 GHz
  - 8 dBi or High Gain 11 dBi Models
- **Hi-Gain Colinear**
  - 2 thru 7 GHz
  - 11 dBi Gain
  - Rugged design
  - Optional pole or tripod mounts

- **Rx Omni**
  - 4.4 to 5.0 GHz
  - 6.4 to 7.125 GHz
  - 11 dBi Nom. Gain
  - Built in 7/2 GHz or 5/2 GHz digital ready block down converter with 22 dB 2 GHz LNA gain
  - +24 Vdc Bias “T”

- **Tx Van Omni**
  - High Gain Digital Ready COFDM Transmit Antenna
  - 6.4 to 7.125 GHz
  - 11 dBi nominal
  - Lightweight and rugged design

**Satellite**

- **NewSwift**
  - Vehicle Mount Steerable Satellite Antenna
  - 0.9, 1.2, 1.5, 1.8 meter diameter antennas
  - Rapid deployment
  - Full 3 axis control, includes 360 azimuth range
  - C, X, Ku, DBS, and Ka band feeds available
  - GPS based auto satellite acquisition package available
  - 800 City database controller
  - Tracking option with beacon receiver
  - Fully remote controllable
  - Intelsat & Eutelsat type approved

- **FlyDrive**
  - Compact lightweight, fully motorized satellite terminal designed for rapid deployment
  - Can be used either as flyaway or vehicle mount
  - 1.2 or 1.5 meter diameters
  - Compact lightweight, fully motorized satellite terminal designed for rapid deployment
  - Can be used either as flyaway or vehicle mount
  - IATA weight complaint flight cases
  - Full 3 axis motorized control with manual backup
  - X, Ku, DBS and Ka band feeds available.
  - Satellite auto acquisition and tracking packages available
  - Easily deployed by a single user
  - Can be used as a flyaway or semi-permanent vehicle mounted antenna using standard roof rack fittings

- **Drive Control Unit housed within main antenna case**
- **Combines with compact half rack 5000 series system electronics**

- **Mantis**
  - Flyaway antenna with manual point or motorized tracking available for inclined orbit operation
  - 1.0, 1.2, 1.9, 2.4 meter diameter antennas
  - Lightweight rugged system with carbon fiber flight cases
  - Easily deployed by a single user
  - Flight cases IATA baggage compliant option
  - Constructed from latest carbon fibre composite materials for minimum weight
  - Multiple band operation
  - In operation worldwide
  - Intelsat type approved at C band

- **Summit**
  - 1 Meter Flyaway Antenna
  - Ku and Ka Bands
  - Five Minute Deploy and Stow
  - Single Box Two Person Carry MIL-STD-810F Transit Case
  - Satellite Auto Acquisition
  - Inclined Orbit Satellite Tracking
  - No Tools Required

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**18/23 GHz Parabolic**

- 2, 3, or 4 ft. diameter
- Plane or dual polarized
- IEC or EIA flanges available

<table>
<thead>
<tr>
<th>Dia.</th>
<th>Plane</th>
<th>Dual</th>
</tr>
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<tbody>
<tr>
<td>2 f.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 f.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 f.</td>
<td></td>
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**18 GHz**

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<td>Plane Polarized</td>
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<td>2 f.</td>
<td>34.0 dBi</td>
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**23 GHz**

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**18/23 GHz High Performance**

- 1, 1.5, 2.3, or 4 ft. diameter
- Plane or dual polarized
- IEC or EIA flanges available

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**Airborne**

**BAO Antenna**
- Blade Omni-directional for transmit from an airborne platform
- 4 dBi gain
- Standard Bands: 1.71 to 1.85 GHz, 2.20 to 2.30 GHz, 2.30 to 2.40 GHz, 2.40 to 2.50 GHz, 4.50 to 5.00 GHz
- Withstands extreme shock & vibration

**QHO Antenna**
- Quad Helix Omni for transmit or receive from an airborne platform
- 4 dBi gain
- Available Bands: 1.70 to 1.90 GHz, 1.98 to 2.11 GHz, 2.40 to 2.50 GHz, 2.30 to 2.50 GHz, 3.40 to 3.60 GHz, 4.80 to 5.10 GHz, 6.40 to 6.60 GHz
- Circular Polarization

**SkyLink**
- High-Definition airborne Antenna system
- Azimuth and Elevation Steering
- Internal heading & altitude sensor
- High gain & low multi-path pattern
- Full-duplex Tx/Rx option
- Wide Range of STC Mounts
- Compatible with Troll C-100 Antenna Control System and STRATA Portable Transmitters

**Button Transponder**
- Omni-directional
- 5.4 to 5.9, 5.4 to 9.6 GHz
- 6 dBi
- Vertical Polarization

**SkyLink DP**
- Deployable Omni Antenna
- 1.7GHz to 15GHz (specified)
- 2dBi / 4dBi / 6dBi nominal gains
- LCP / RCP / Vertical Polarization

**Mini Portable**

**Hand**

**Low Profile Di-Pole**
- 1.24 to 1.34 GHz
- 2.38 to 2.61 GHz
- 2 dBi gain
- Omnidirectional

** LINK Portables**

**High Gain Antenna (L3601)**
- 1.95 to 2.8 GHz
- 1.5 dBi
- 40° (1 meter) length
- 1.9” (48mm) diameter
- 20° horizontal/vertical beamwidth
- Clockwise Circular polarization

**Vehicle Transmit Antenna (L3511)**
- For ground based reception
- 1.95 to 2.7 GHz (L3512)
- 3.0 to 3.7 GHz (L3512)
- 3 dB gain
- Vertical polarization
- Beamwidth: 76° vertical beamwidth
- 20° degree upward tilt
- Horizontal – omni
- 2.2” (55mm) height

**Up / Down Antenna (L3603)**
- Transmit or receive antenna for air to ground, ground to air, or mobile to airborne links
- 1.7 to 2.8 GHz (L3603)
- 3.3 to 3.7 GHz (L3610)
- 8 dBi gain
- 3.2” (80mm) Height/Width
- 85° beam width

**Diversity Antenna**
- Ideal for large airborne coverage for diversity receive systems
- Four L3603 or L3610 Antenna Mounts

**“Spring” Mount Antenna**
- Omni directional for complete freedom of movement
- 3 dBi

**Short Receive Antenna (L3520/3522)**
- Omni directional
- 3 dBi gain

**Vehicle Transmit Antenna (L3535/3530)**
- 6.0 to 7.5 GHz
- 85° beamwidth
- Clockwise circular polarization
- Vertical polarization
- 80° degree upward tilt
- 2.2” (55mm) height

**80 Degree Receive Antenna**
- Frequency: 3.3 to 3.7 GHz (L3480)
- Gain: 9 dBi
- Height: 76mm
- Width: 95mm
- Depth: 65mm
- Polarization: Vertical
- Beamwidths:
  - Horizontal: 80°
  - Vertical: 80°

**180 Degree Receive Antenna (L3480)**
- Ideal for stadium or area coverage
- Frequency: 1.95 to 2.7 GHz (L3480)
- 3.4 to 3.7 GHz (L3485)
- 6 dBi
- Vertical polarization
- Beamwidth: 76° Vertical
- 170° Horizontal
- Height: 90mm
- Width: 40mm
- Depth: 65mm

**“Spring” Mount Antenna**
- Omni directional for complete freedom of movement
- 3 dBi

**Hand Held Helical**
- Portable ENG or Outside Broadcast
- Frequency/Gain
  - 2.0 to 2.5 GHz @10 dBi
  - 4.4 to 5.0 GHz @15 dBi
  - 4.4 to 5.0 GHz @18 dBi
  - 6.4 to 7.1 GHz @10 dBi
- Circular polarization

**Hand Held Helical**
- 2.15 to 2.7 GHz
- 3.38 to 3.7 GHz
- 85° beamwidth
- Clockwise circular polarization
- Vertical polarization
- 80° degree upward tilt
- 2.2” (55mm) height

**80 Degree Receive Antenna**
- Frequency: 3.3 to 3.7 GHz (L3490)
- Gain: 9 dBi
- Height: 76mm
- Width: 95mm
- Depth: 65mm
- Polarization: Vertical
- Beamwidths:
  - Horizontal: 80°
  - Vertical: 80°

**High Gain Sector Antenna (L3800)**
- 2.15 to 2.7 GHz
- Polarization: Vertical
- Connector: N-type
- X-Pol Rejection: 25 dB
- VSWR: 1:5:1
- F/B Ratio: >25 dB

**Low Profile Di-Pole**
- 1.24 to 1.34 GHz
- 2.38 to 2.61 GHz
- 2 dBi gain
- Omnidirectional

**Hand Held Helical**
- Portable ENG or Outside Broadcast
- Frequency/Gain
  - 2.0 to 2.5 GHz @10 dBi
  - 4.4 to 5.0 GHz @15 dBi
  - 4.4 to 5.0 GHz @18 dBi
  - 6.4 to 7.1 GHz @10 dBi
- Circular polarization

**Hand Held Helical**
- 2.15 to 2.7 GHz
- 3.38 to 3.7 GHz
- 85° beamwidth
- Clockwise circular polarization
- Vertical polarization
- 80° degree upward tilt
- 2.2” (55mm) height

**80 Degree Receive Antenna**
- Frequency: 3.3 to 3.7 GHz (L3490)
- Gain: 9 dBi
- Height: 76mm
- Width: 95mm
- Depth: 65mm
- Polarization: Vertical
- Beamwidths:
  - Horizontal: 80°
  - Vertical: 80°

**High Gain Sector Antenna (L3800)**
- 2.15 to 2.7 GHz
- Polarization: Vertical
- Connector: N-type
- X-Pol Rejection: 25 dB
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**Mini Portable**

**Hand**

**Low Profile Di-Pole**
- 1.24 to 1.34 GHz
- 2.38 to 2.61 GHz
- 2 dBi gain
- Omnidirectional

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