General Dynamics SATCOM Technologies is the World’s leading end-to-end provider of ground-based satellite communications products and high-precision scientific and satellite terminals and services. Our Small Deployable Antenna product family includes SATCOM On-the-Move®, Flyaway, Quick Deploy and Mobile antenna terminals. These terminals are available in both motorized and manual options, as well as a variety of reflector sizes and configurations. They are lightweight, compact, rugged, easy-to-use and setup anytime, anywhere.
**TRANSPORTABLE VSAT ANTENNAS**

**QUICK DEPLOY**
- Segmented precision compression molded offset reflector
- Quick and easy assembly, no tools required
- Light weight aluminum construction
- Manual adjusted positioner
- Captive hardware
- 1 to 2 person set-up

**RUGGED DEPLOY**
- Segmented precision compression molded offset reflector
- Quick and easy assembly, no tools required
- Heavy duty galvanized steel construction
- Proven performance in harsh environments
- Manual adjusted positioner
- Captive hardware
- 1 to 2 person set-up

### Applications
- 1138QD: Landmobile
- 1189QD: Landmobile
- 1259QD: Landmobile
- 1126RD: Landmobile
- 1188RD: Landmobile
- 1248RD: Landmobile

### Positioning
- Manual

### Aperture Size
- 1138QD: 1.2M
- 1189QD: 1.8M
- 1259QD: 2.4M
- 1126RD: 1.2M
- 1188RD: 1.8M
- 1248RD: 2.4M

### Weight
- 1138QD: 100 lbs
- 1189QD: 169 lbs
- 1259QD: 528 lbs
- 1126RD: 146 lbs
- 1188RD: 354 lbs
- 1248RD: 416 lbs

### Frequency Bands
- C, X, Ku

### Frequency - Receive (GHz)
- **C**: 3.625 – 4.2
  - X: 7.25 – 7.75
  - Ku: 10.95 – 12.75

### Frequency - Transmit (GHz)
- **C**: 5.85 – 6.425
  - X: 7.9 – 8.4
  - Ku: 13.75 – 14.5
FLYAWAY ANTENNAS

- Manual and motorized options with upgradeable features such as motor kits and RF packages
- Lightweight, compact and easy-to-deploy
- Rugged for use in harsh outdoor environments
- Wide range of sizes and configurations to fit any application
- Provides a high bandwidth connection capable of high speed data transmission
- Ideal for first responders, news gathering, disaster recovery, command & control and wireless backhaul

<table>
<thead>
<tr>
<th>Applications</th>
<th>Landmobile</th>
<th>Landmobile</th>
<th>Landmobile</th>
<th>Landmobile</th>
<th>Landmobile</th>
<th>Landmobile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positioning</td>
<td>Manual or Automated</td>
<td>Manual or Automated</td>
<td>Manual or Automated</td>
<td>Manual or Automated</td>
<td>Manual or Automated</td>
<td>Manual or Automated</td>
</tr>
<tr>
<td>Aperture Size</td>
<td>.6M</td>
<td>1M</td>
<td>1.25M</td>
<td>1.4M</td>
<td>1.8M</td>
<td>2.4M</td>
</tr>
<tr>
<td>Weight</td>
<td>51 lbs</td>
<td>71 - 107 lbs</td>
<td>200 lbs FM/235 lbs FA</td>
<td>215 lbs FM/250 lbs FA</td>
<td>355 lbs</td>
<td>400 - 425 lbs</td>
</tr>
<tr>
<td>Frequency Bands</td>
<td>X, Ku, Ka</td>
<td>X, Ku, Ka</td>
<td>X, Ku, Ka</td>
<td>X, Ku, Ka</td>
<td>C, X, Ku, Ka</td>
<td>C, X, Ku, Ka</td>
</tr>
</tbody>
</table>
## MOBILE ANTENNAS

- Manual and motorized options
- Easy-to-deploy
- Low maintenance
- Integrated controller with tracking options available
- RF integrations available
- Low stow profile with high performance
- Rugged for use in harsh outdoor environments
- Available in a variety of reflector sizes
- Ideal for first responders, news gathering, disaster recovery, command & control and wireless backhaul

### Applications
- **C125M**: Landmobile
- **C140M/MW**: Landmobile
- **C180M**: Landmobile
- **C240M**: Landmobile

### Positioning
- **C125M**: Automated
- **C140M/MW**: Automated
- **C180M**: Automated
- **C240M**: Automated

### Aperture Size
- **C125M**: 1.25M
- **C140M/MW**: 1.4M
- **C180M**: 1.8M
- **C240M**: 2.4M

### Weight
- **C125M**: 140 lbs
- **C140M/MW**: 145 - 240 lbs
- **C180M**: 260 lbs
- **C240M**: 560 lbs

### Frequency Bands
- **C125M**: X, Ku, Ka
- **C140M/MW**: X, Ku, Ka
- **C180M**: C, X, Ku, Ka
- **C240M**: C, X, Ku, Ka

### Frequency - Receive (GHz)

<table>
<thead>
<tr>
<th>Model</th>
<th>X:</th>
<th>Ku:</th>
<th>Ka:</th>
</tr>
</thead>
<tbody>
<tr>
<td>C125M</td>
<td>7.25</td>
<td>10.7</td>
<td>19.2</td>
</tr>
<tr>
<td></td>
<td>7.75</td>
<td>12.75</td>
<td>21.20</td>
</tr>
<tr>
<td>C140M/MW</td>
<td>7.25</td>
<td>10.7</td>
<td>19.2</td>
</tr>
<tr>
<td></td>
<td>7.75</td>
<td>12.75</td>
<td>21.20</td>
</tr>
<tr>
<td>C180M</td>
<td>C:</td>
<td>X:</td>
<td>Ku:</td>
</tr>
<tr>
<td></td>
<td>3.625-4.2</td>
<td>7.25-7.75</td>
<td>10.7-12.75</td>
</tr>
<tr>
<td></td>
<td></td>
<td>19.2-21.2</td>
<td>5.85-6.725</td>
</tr>
<tr>
<td>C240M</td>
<td>C:</td>
<td>X:</td>
<td>Ku:</td>
</tr>
<tr>
<td></td>
<td>3.625-4.2</td>
<td>7.25-7.75</td>
<td>10.7-12.75</td>
</tr>
<tr>
<td></td>
<td></td>
<td>19.2-21.2</td>
<td>5.85-6.425</td>
</tr>
</tbody>
</table>

### Frequency - Transmit (GHz)

<table>
<thead>
<tr>
<th>Model</th>
<th>X:</th>
<th>Ku:</th>
<th>Ka:</th>
</tr>
</thead>
<tbody>
<tr>
<td>C125M</td>
<td>79</td>
<td>10.7</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>8.4</td>
<td>12.75</td>
<td>31</td>
</tr>
<tr>
<td>C140M/MW</td>
<td>79</td>
<td>10.7</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>8.4</td>
<td>12.75</td>
<td>31</td>
</tr>
<tr>
<td>C180M</td>
<td>C:</td>
<td>X:</td>
<td>Ku:</td>
</tr>
<tr>
<td></td>
<td>5.85-6.725</td>
<td>7.9-8.4</td>
<td>13.75-14.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>29-31</td>
<td>29-31</td>
</tr>
<tr>
<td>C240M</td>
<td>C:</td>
<td>X:</td>
<td>Ku:</td>
</tr>
<tr>
<td></td>
<td>5.85-6.425</td>
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<td></td>
<td></td>
<td>29-31</td>
<td>29-31</td>
</tr>
</tbody>
</table>
SATCOM-ON-THE-MOVE ANTENNAS

- Reliable, high data rate satellite communications while on-the-move
- Combine integral tracking receiver, gyro stabilization and inertial measurement unit
- Provides vital access to voice, video and data in areas where terrestrial communications do not exist
- RF bands provide maximum operation flexibility (Ku, Ka MIL, Ka and X)
- Proven performance on wheeled and tracked vehicles, aircraft, ships and UAVs
- Modular design enhances maintainability and minimizes life cycle cost
- Superior link availability and performance over a wide range of operational conditions
- Lightweight and rugged to withstand harsh outdoor environments

<table>
<thead>
<tr>
<th>Applications</th>
<th>MODEL 17-17A</th>
<th>MODEL 20-20M</th>
<th>MODEL 20-24M</th>
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</thead>
<tbody>
<tr>
<td>Positioning</td>
<td>Airborne</td>
<td>Landmobile, Maritime</td>
<td>Landmobile, Maritime</td>
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<tr>
<td>Aperture Size</td>
<td>17”</td>
<td>20.5”</td>
<td>24”</td>
</tr>
<tr>
<td>Weight</td>
<td>85 lbs</td>
<td>125 - 145 lbs</td>
<td>130 - 145 lbs</td>
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<tr>
<td>Frequency Bands</td>
<td>X, Ku</td>
<td>X, Ku, Ka</td>
<td>X, Ku, Ka</td>
</tr>
<tr>
<td>Frequency - Transmit (GHz)</td>
<td>X: 7.90 to 8.40, Ku: 13.75 to 14.50</td>
<td>X: 7.90 to 8.40, Ku: 13.75 to 14.50, Ka (MIL): 30.20 to 31.00, Ka (COM): 29.00 to 30.00</td>
<td>X: 7.90 to 8.40, Ku: 13.75 to 14.50, Ka (MIL): 30.20 to 31.00, Ka (COM): 29.00 to 30.00</td>
</tr>
</tbody>
</table>
**QUICK DEPLOY ANTENNAS**

- Manual and motorized options
- Lightweight and compact for easy transportation
- Easy-to-use and deploy
- Rugged for use in harsh outdoor environments
- BUC, LNB and Modem agnostic to fit any application
- Ideal for first responders, news gathering, disaster recovery, command & control and wireless backhaul

### Applications

<table>
<thead>
<tr>
<th></th>
<th>upak® C060QDM</th>
<th>upak® C060QDA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Positioning</td>
<td>Manual</td>
<td>Automated</td>
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<tr>
<td>Aperture Size</td>
<td>.6M</td>
<td>.6M</td>
</tr>
<tr>
<td>Weight</td>
<td>33 lbs</td>
<td>51 lbs</td>
</tr>
<tr>
<td>Frequency Bands</td>
<td>X, Ku, Ka</td>
<td>X, Ku, Ka</td>
</tr>
</tbody>
</table>

### Frequency Bands

- **Receive (GHz):**
  - X: 7.25 - 7.75
  - Ku: 10.95 - 12.75
  - Ka: 19.7 - 21.2

- **Transmit (GHz):**
  - X: 7.25 - 7.75
  - Ku: 10.95 - 12.75
  - Ka: 19.7 - 21.2

- **Receive (GHz):**
  - X: 7.9 - 8.4
  - Ku: 13.75 - 14.5
  - Ka: 29.5 - 31

- **Transmit (GHz):**
  - X: 7.9 - 8.4
  - Ku: 13.75 - 14.5
  - Ka: 29.5 - 31
Customer Care is SATCOM Technologies’ initiative to support you and your team in all areas of operations. Our Customer Care team is available 24/7, 365 days a year to assist you with any questions about our products and services and your installations.

- 24/7/365 day technical support
- 3-Year full warranty on all products
- Extended warranty options available
- On-site training available
- Factory acceptance testing available

SUPPORT SERVICES

Innovative Technical Solutions Consulting - To advance solutions to your mission objectives and challenges, our Chief Technical Officer and product line engineers have decades of experience and stand ready to support discussions.

Long-Term Spare Equipment and Product Support -
At your request, we will analyze your needs and recommend minimum levels of spare parts or Line Replaceable Units (LRUs) to optimize your spare parts investment and mitigate the risk of unplanned shortages.

Configuration Management (CM) Services - Depending on your contract requirements, we can quote custom CM services whereby a unique part number will be assigned to your deliverable equipment item. Placing an item under CM control gives you the right to review and approve any and all changes to the product design.

Product Loaner Services - We understand special situations arise when a loaned product can make all the difference to your business. Whether it is an emergency need for redundant equipment to mitigate risk of network downtime, a customer demonstration opportunity, or the need to test equipment through a third party, we always strive to find ways to meet your mission critical needs.

Equipment Repair Services & Warranty Repairs -
Our standard warranty covers defects in material and workmanship for a period of one year from the date of shipment. If any defect arises during the warranty period, we will repair or replace the equipment and return it to the designated destination. We warrant all repaired or replaced equipment for ninety (90) calendar days after shipment or the remaining warranty term, whichever is longer.

Extended Warranties - We will quote extended warranty coverage upon request to meet your needs.

Out-of-Warranty Repairs - We quote all out-of-warranty repairs after an inspection of your equipment.

Prototyping, Engineering, and Test Range Services -
At your request, we can support your requirements to design and manufacture prototypes using agile processes to accelerate delivery of a customized product. Our RF engineers will evaluate your custom feed requirements, including use of customer-furnished equipment, and develop solutions to optimize your antenna system’s performance. Our test range facilities include state of the art equipment and are staffed with experienced technicians to assure delivery of proven end-to-end solutions.

Reset Services - We offer two types of Reset Service contracts: (a) Refurbishments to Original Configuration, and (b) Upgrades to Latest Configuration. All Reset Services are offered with a one (1) year warranty.

Buyback Program - For customers interested in compensation for legacy antenna equipment, we have a Buyback Program in the form of credits to be applied to future purchases of new antennas.

Field Services and Training - Depending on your mission requirements, we can provide an experienced engineer, technician or field supervisor to assure smooth installation, integration and/or site acceptance tests for your communication assets. We also offer factory and field training services and Operations and Maintenance (O&M) manuals.