



## Trailer-based antenna systems for field communications

GlobalStorm 2400 and 3700 trailer-based antenna systems provide the ideal communications platform to support your field communications needs. Each system is designed for reliable communications on the quick halt, providing a critical link to firefighters, emergency management agencies and 1st responders worldwide. Each GlobalStorm 2400/3700 trailer can be customized to support multiple frequency bands. Choose from SCPC, DAMA or Video Encoder applications as well as an “IP over satellite” version that provides voice, data and video over IP. Each trailer includes environmentally-controlled trailer enclosures to protect your valuable field equipment.

### Key Features:

- Manual & automatic satellite acquisition configuration
- 2.4m/3.7 antenna large enough to close difficult links
- On-board power generation
- Truck towable and helo transportable
- COTS design
- Custom trailer sizes available to support your mission
- Optional add-on Wi-Fi, LMR & Cellular backhaul packages
- Provides immediate bandwidth to any location
- Rapid and easy antenna deployment
- Fully mobile, self-contained Earth Station
- C, Ku or X band configurations

### Applications:

- Disaster recovery
- LMR bridging
- Cellular backhaul
- Corporate communications backup to terrestrial service
- Short-term to semi-permanent installations
- Distance learning
- Telemedicine
- Homeland Defense
- Marketing events trade shows

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communications platform  
to support your field  
communication needs.



| Electrical | GlobalStorm 2400<br>Technical Specifications | GlobalStorm 3700<br>Technical Specifications |
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|                               |    |                                     |                                      |
|-------------------------------|----|-------------------------------------|--------------------------------------|
| Antenna Size                  |    | 2.4M (96 in.)                       | 3.7M (144in.)                        |
| Operating Frequency (GHz)     | RX | 3.625 – 4.2 GHz                     | 3.625 – 4.2 GHz                      |
|                               | TX | 5.850 – 6.425 GHz                   | 5.850 – 6.425 GHz                    |
| Midband Gain ( + 0.5dB)       | RX | 38 dB                               | 40.9 dB                              |
|                               | TX | 42 dB                               | 44.7 dB                              |
| Antenna Noise Temperature     |    | Linear Circular                     | Linear Circular                      |
| 10°elevation                  |    | 52 K                                | 36 K                                 |
| 20°elevation                  |    | 46 K                                | 23 K                                 |
| 30°elevation                  |    | 45 K                                | 21 K                                 |
| Insertion Loss                |    | 02 dB Max.                          | .05/.02 dB                           |
| Power Handling Capability     |    | 500 Watts                           | 500 Watts                            |
| Sidelobe Envelope, (Transmit) |    |                                     |                                      |
| Mainbeam < _ < 48°            |    | 32 – 25 Log _ dBi                   | 32 – 25 Log_dBi                      |
| 48° < _ < 180°                |    | - 10 dBi (averaged)                 | - 10 dBi (averaged)                  |
| Polarization                  |    | Linear (Co- or Cross-Pol)& Circular | Linear (Co- or Cross-Pol) & Circular |
| Feed Interface                | RX | CPR 229 F                           | CPR 229 F                            |
|                               | TX | CPR 137 or Type N                   | CPR 137 or Type N                    |
| Cross-Pol Isolation           |    | >30 dB (on axis)                    | >30 dB (on axis)                     |
| VSWR                          |    | 1.3:1 Max.                          | 1.3:1 Max.                           |
| 3 dB Beamwidth                | RX | 2.2°                                | 1.4°                                 |
|                               | TX | 1.4°                                | 0.9°                                 |
| Pol Rotation (manual)         |    | +90 deg. cont.                      | +90 deg. cont.                       |
| Isolation TX to RX            |    | 90 dBi min.                         | X-Pol: 75 dBi min.                   |
|                               |    | Co-Pol: 70 dBi min.                 | Co-Pol: 60 dBi min.                  |

| Mechanical | GlobalStorm 2400 | GlobalStorm 3700 |
|------------|------------------|------------------|
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|                      |   |  |
|----------------------|---|--|
| Reflector Material   | Glass Fiber Reinforced Polyester SMC      | Precision Forged Aluminum                  |
| Antenna Optics       | 2 Pc. Prime Focus, Offset<br>Axisymmetric | 3 Pc. Trifold Prime Focus,<br>Axisymmetric |
| Mast Pipe Size       | 6" SCH 80 Pipe (6.62" OD)                 | 6" SCH 80 Pipe (6.62" OD)                  |
| Elevation Adjustment | 30° to 90° Upright                        | 10° to 70° Continuous Fine                 |
| Range Adjustment     | 0° to 40° Inverted                        | (90° Optional)                             |
| Azimuth Adjustment   | 360° Continuous Range                     | 330° Continuous                            |

| Trailer Specifications * | GlobalStorm 2400 | GlobalStorm 3700 |
|--------------------------|------------------|------------------|
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|                            |                              |                              |
|----------------------------|------------------------------|------------------------------|
| Tandem Axle Assembly       | 7,000 lb                     | 12,000 lb                    |
| Tires                      | LT225/75R15                  | LT235/85R16                  |
| Wheel Size and Type        | 15" x 6", 5 x 4.5" white mod | 16" x 6", 8 x 6.5" white mod |
| Length                     | 240 in.                      | 288 in.                      |
| Width                      | 98 in.                       | 98 in.                       |
| Height (to jack feet)      | 10 in.                       | 10 in.                       |
| Height (to trailer bed)    | 18 in.                       | 18 in.                       |
| Height (to top of AC unit) | 88.5 in.                     | 88.5 in.                     |
| Stowed Height              | 82.5 in.                     | 103.25 in.                   |
| Weight                     | 4750 lbs.                    | 10,150 lbs                   |
| Tongue Weight              | 626 lbs.                     | 1,100 lbs                    |
| Electrical                 | 12 volt, 6 pin connector     | 10,000 lb lift capacity      |
| Jack (Drop Leg)            | 10,000 lb lift capacity      |                              |
| Jack (Tongue)              | 2", 5000 lb                  |                              |
| Trailer Hitch              | 3" Pintle or 2 5/16" Ball    |                              |
| Brakes                     | 4 wheel hydraulic            |                              |



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