# C-Series
# Portable Satellite Antenna Terminals (PSATs)

## Quick Deployment

When your mission requires quick connectivity in a remote location, DataPath's C-Series terminals are your solution. For more than two decades, government agencies and military units all over the world have been relying on DataPath for durable portable satellite terminals. C-Series is designed to be rugged, easy to transport, and quickly deployable. These compact terminals come in three sizes and feature interchangeable components that give you a wide range of capabilities while minimizing your equipment purchase.

**Future Proof**
A modular system allows you to change key characteristics of your C-Series system, maximizing your investment and enabling true flexibility to easily adapt to future needs.

**Flexible**
The unique CCTSmart Distributed System (SDS) automatically adjusts to different system configurations for hassle-free operations, fast-to-air satellite connectivity.

**Easy to Use**
The common, intuitive interface on all C-Series products allows users to become quickly fluent on all C-Series terminals.

**Integrated Terminal**
Our systems are fully integrated into a single unit for easy assembly, handling and transportation, reducing the risk of lost or damaged interconnect cables.

**Field Proven and Tested**
Our compact antennas and systems are designed to withstand wind-drag, rain, dust and other environmental hazards

**From Case to Connect in Minutes**
With no tools needed, easy one-person operation and intuitive GUI with fully automatic point-and-shoot antenna controls, your C-Series system will be ready for transmission in minutes.

### AUTOMATED SATELLITE ACQUISITION
With no tools required and easy one-person operation, the C-Series goes from case to connected in 5-10 minutes

### COMMON MODULAR ARCHITECTURE
Interchangeable modules allow you to customize for mission, portability, speed and budget

### MIL-STD-810G TESTED
Withstands wind-drag, rain, dust, and other environmental hazards

### WIDEBAND KA CAPABLE AND ARSTRAT (WGS) COMPLIANT
Enables usage with government and commercial constellations

### FIELD-SWAPPABLE COMPONENTS
Maximize your investment and adapt to future needs by changing key modules of your system for different frequency bands (X, Ku, Ka), power levels and modem types

C-SERIES
GOVERNMENT

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# SPECIFICATIONS

| | CCT90 | CCT120 | CCT120-GX | CCT200 |
|---|---|---|---|---|
| Reflector | 0.9 x 0.66 m (35.4 x 26.0 in) | 1.2 x 0.84 m (47.2 x 33.1 in) | 1.2 x 0.84 m (47.2 x 33.1 in) | 2.0 x 1.4 m (78.7 x 55.1 in) |
| Azimuth Range | ±90° | ±90° | ±90° | 335° |
| Elevation Range | 10° - 90° | | | |
| Operating Temperature | -32°C to +50°C (-26°F to +122°F) | -32°C to +50°C (-26°F to +122°F) | -32°C to +50°C (-26°F to +122°F) | -32°C to +50°C (-26°F to +122°F) |
| Storage Temperature | -46°C to +71°C (-51°F to +160°F) | | | |
| Operational Wind Speed | Max 20 m/s (45 mph), anchored | | | |
| Ingress Protection | IP65 | | | |
| Modems | iDirect Evolution, iDirectCX750 (GX), Comtech DMD1050, Teledyne Q-Lite, ND Satcom SkyWAN 1070, ViaSat LinkWay S2, Advantech SatNet S4100A2, L-band interface | | | |
| Power | 90-264 V AC, 45-63 Hz; 19-36 V DC | 90-264 V AC, 45-63 Hz; 19-36 V DC | 85-265 V AC, 45-66 Hz | 90-264 V AC, 45-63 Hz; 19-36 V DC |
| Certifications | CE Certified according to 1999/5/EC RTTE and 2006/42/EC Machinery Directives ARSTRAT / WGS Certified for X- and Ka-band (CCT120, CCT200) Inmarsat GX Type Approved for Commercial (CCT120) and Military Ka-Band (CCT120, CCT200) | | | |
| Transit Case Dimensions and Weight* | Case 1: 55 kg (121 lb) Case 2: 15 kg (33 lb) | Case 1: 30.0 kg (66.2 lb) Case 2: 28.9 kg (63.8 lb) Case 3: 27.4 kg (60.5 lb) | Case 1: 30.0 kg (66.2 lb) Case 2: 28.9 kg (63.8 lb) Case 3: 27.4 kg (60.5 lb) Case 4: 25.0 kg (55.1 lb) | Case 1: 64.5 kg (142.2 lb) Case 2: 65.9 kg (145.3 lb) Case 3: 64.8 kg (142.8 lb) Case 4: 73.7 kg (162.5 lb) |

| | CCT90 | | CCT120 | | | CCT120-GX | CCT200 | | |
|---|---|---|---|---|---|---|---|---|---|
| | Ku (50W) | Mil Ka (35W) | X (60W) | Ku (50W) | Mil Ka (35W) | Comm Ka (5W) | X (60W) | Ku (50W) | Mil Ka (35W) |
| Polarization | Linear, cross-pol | Circular, reversible | Circular, reversible | Linear, cross-pol | Circular, reversible | Circular, reversible | Circular, reversible | Linear, cross-pol | Circular, reversible |
| Transmit Frequency (GHz) | 13.75-14.50 | 30.0-31.0 | 7.9-8.4 | 13.75-14.50 | 30.0-31.0 | 29.0-30.0 | 7.9-8.4 | 13.75-14.50 | 30.0-31.0 |
| Receive Frequency (GHz) | 10.70-12.75 | 20.2-21.2 | 7.25-7.75 | 10.70-12.75 | 20.2-21.2 | 19.2-20.2 | 7.25-7.75 | 10.70-12.75 | 20.2-21.2 |
| EIRP, Min @ midband (dBW) | 54.7 @ P1dB | 55.9 @ Pmax lin | 54.2 @ P1dB | 57.7 @ P1dB | 59.0 @ Pmax lin | 54.0 @ Pmax lin | 58.1 @ P1dB | 61.9 @ P1dB | 61.8 @ Pmax lin |
| G/T @ 20° elevation (dB/K) | 15.8 | 16.6 | 15.7 | 19.0 | 21.0 | 19.3 | 20.7 | 23.6 | 26.2 |

**sales@datapath.com**                                                                 **datapath.com**