



# C-Series Portable Satellite Antenna Terminals (PSATs)

## Quick Deployment

### LEO and MEO (Multi-Orbit) Capable

To address today's multi-orbit communications applications, DataPath's C-Series terminals feature a wide azimuth travel range, continuous duty-cycle high-speed servo drives, antenna control with Ephemeris data ingest, and RF payloads for today's LEO and MEO broadband communication constellations. Two C-Series terminals provide data handover between satellites. Options to mitigate overhead pass limitation are available.

### 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



# 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	Dual LO, 14.0-14.5 or 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