DATAPATH™

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 (DVB-S2X option), 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

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