

DATA PATH™ QCT 90

Man-Portable Terminal

Quick Case Technology™ (QCT) 90

Modular Flexibility

The flexible modular design allows for multi-band capabilities with the addition of transceiver units, which can easily be switched by the field operator.

- Transceiver options include Global Xpress and other bands below 31 GHz
- Modem options are iDirect, L-band and others that meet the specified size and power requirements
- Frequency bands include X, Ku and Ka

Portable Communications When You Need It, Where You Need It

News crews, first responders and military units require durable, ultra portable terminals for quick connectivity in remote locations. DataPath developed the new QCT90 man portable terminal to provide reliable, highperformance satellite communications capabilities when your mission calls for quick connectivity on the go.

The DataPath QCT90 is based on the successful modular concept and Gregorian dual offset antenna design of the SWE-DISH® CommuniCase Technology (CCT) product family. Made of carbon fiber for ultimate performance and durability, the system was engineered to be lightweight, easy to use, highly transportable, and quick to setup and stow. The small man-pack terminal was designed to achieve the highest possible throughput in the smallest possible package.

The QCT90 signifies DataPath's commitment to designing highly innovative technology to facilitate remote communications for aerospace, broadcast, government and infrastructure clients.



Engineered for Simplicity

The user-centric QCT90 is compact with fully integrated components and cables, eliminating the burden of loose parts. The unit is a single piece with a folding antenna and detachable legs, making deploy and stow as simple as click, fold and go.

Additionally the intuitive GUI is easy to follow during the manual pointing procedure. Less than two hours of training is required to operate the terminal.

Key Features

- Only two separate parts and no loose cables
- Accurate assisted manual pointing
- Less than 5 minutes from case to connected
- Easy to use integrated control panel
- Single backpack/transit case
- IATA airline checkable
- Integrated power supply can connect to DC or AC
 - AC Supply
 - DC Supply
 - 85-265 VAC 45-66 Hz
 - 10-36 VDC

Specifications

QCT90

Operational Conditions	16W X-Band	15W Ku-Band	8W Ka-Band Mil/Civ
Operating temperature	-32°C to +55°C (-26°F to +131°F)		
Storage temperature	-40°C to +71°C (-40°F to +159°F)		
Operational wind speed	Max 15m/s (33.5 mph), 20 m/s (44.7 mph) with integrated wind stays		Max 10 m/s (22.3 mph), 20 m/s (44.7 mph) with integrated wind stays
General Features			
Polarization	Circular, reversible	Cross-pol linear	Circular, reversible
Azimuth range	360°, adjustable fine-tuning –20°		
Elevation range	10° to 90°		
Weight	20.6 kg (45.4 lb) terminal only, 24.5 kg (54 lb) including soft back-pack. 32 kg (70.5 lb) including hard transit case 76 x		
Dimensions	36 x 27 cm (29.9 x 14.1 x 10.6 in) stowed; 128 x 99 x 104 cm (50.4 x 39.0 x 40.9 in) deployed		
Antenna aperture	0.9 x 0.59 m (35.4 x 23.2 in) Gregorian dual offset antenna		
Antenna positioning	Assisted manual pointing by GUI and hardware through GNSS, electronic compass and inclinometer		
Designed to meet	SkyNet, Eutelsat, Intelsat, Sicral, Athena Fidus, SES, and CE Certification according to 1999/5/EC R&TTE and MIL-STD-810 G		
Performance			
EIRP (min @ midband)	45.0 dBW @ Pmax lin	50.0 dBW @ P1dB	52.0 dBW @ Pmax lin
Transmit frequency (GHz)	7.9 to 8.4	13.75 to 14.5	30.0 to 31.0 / 29.0 to 30.0
Receive frequency (GHz)	7.25 to 7.75	10.7 to 12.75	20.2 to 21.2 / 19.2 to 20.2
G/T @ 20° elevation	12.0 dB/K (typ. @ midband)	16.0 dB/K (typ. @ midband)	18.5 dB/K (typ. @midband)
Polarization range	NA	+105° to -125°	NA
Tx XPD/AR within 1 dB contour	AR < 1.0 dB	XPD > 30 dB	AR < 1.0 dB

