DATAPATH™

Building Networks. Connecting People. Fortifying the Bottom Line.

Q-Series
Portable Satellite Antenna Terminals (PSATs)
Extremely Rapid Deployment

News crews, industrial workers and first responders require durable, portable terminals for quick connectivity in remote locations. DataPath developed the Q-Series PSATs to provide reliable, high-performance satellite communications when your operation calls for connectivity on the go. The terminals ensure critical communications channels are maintained in the harshest, most remote locations. The systems are lightweight, easy to use, highly transportable and quick to set up and stow.

The QCT90 antenna system is available in a standard base configuration or it can be customized with pre-bundled or customer-furnished components, including:

- Commercially available BUCs/LNBs
- Ku-band or commercial Ka-band pre-bundled transceivers
- Inmarsat GX kit
- Pointing kit
- ODU's holding modems attached to the backside of the reflector

The Q90 features an open-ended approach to VSATs where preferred configuration can be decided by customers and integrators.

PACKS INTO ONE AIRLINE CHECKABLE CASE
Easy transport and deployment

FIELD-PROVEN & TESTED
Withstands wind-drag, rain, dust, and other environmental hazards
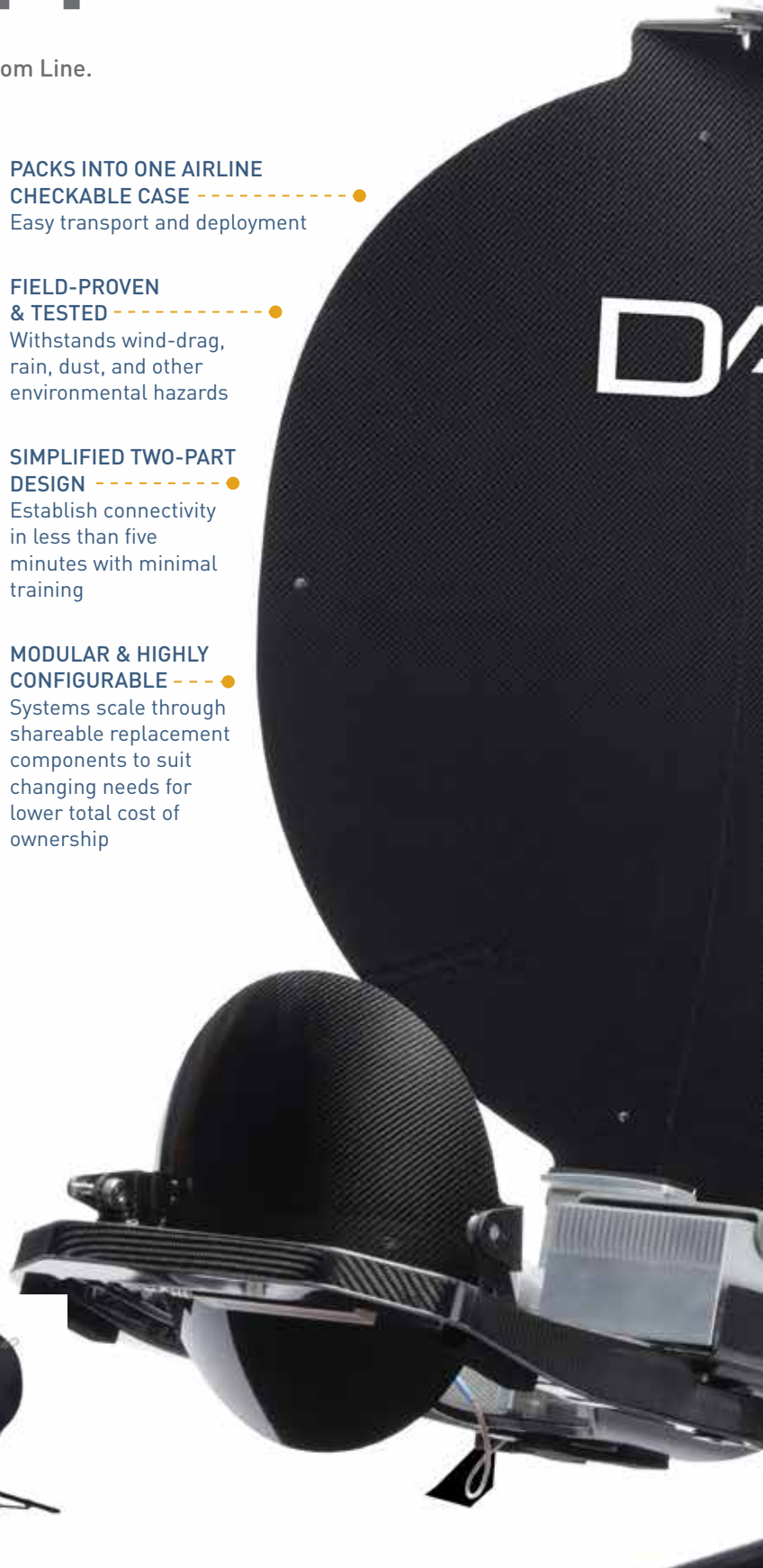
SIMPLIFIED TWO-PART DESIGN
Establish connectivity in less than five minutes with minimal training

MODULAR & HIGHLY CONFIGURABLE
Systems scale through shareable replacement components to suit changing needs for lower total cost of ownership

Q-SERIES
COMMERCIAL

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SPECIFICATIONS

	Q90						Q90-GX
Transceiver Config. (Polarization acronym)	Ku-6W LCrP	Ku-12W LCrP	Ku-25W LCrP	Ku-55W LCrP	Com Ka-8W CCrP	Com Ka-10W CCrP	Com Ka-5W GX CCrP
Reflector	0.9 x 0.59 m (35.4 x 23.2 in)						
Azimuth Range	360°, fine adjust +/-20°						
Elevation Range	10° to 90° (on leveled surface, but can be tilted for lower Elevation angles)						
Operating Temp.	-32°C to +55°C (-26°F to +131°F)						
Storage Temperature	-40°C to +71°C (-40°F to +159°F)						
Operational Wind	Max 72 km/h (45 mph) with integrated windstays						
Power	CFE Power Supply for BUC/LNB or via IFL from modem (if supported)						90-264VAC, 47-6 Hz
Transmit Freq. (GHz)	13.75-14.5	13.75-14.5	13.75-14.5	13.75-14.5	29.0-30.0	29.0-30.0	29.0-30.0
Transmit LO (GHz)	12.8	12.8 / 13.05	12.8 / 13.05	12.8 / 13.05	28.05	28.05	28.05
Receive Freq. (GHz)	10.7-12.75	10.7-12.75	10.7-12.75	10.7-12.75	19.2-20.2	19.2-20.2	19.2-20.2
Receive LO (GHz)	9.75/10.6 mech switch	9.75/10.6 mech switch	9.75/10.6 mech switch	9.75/10.6 mech switch	18.25	18.25	18.25
EIRP, Min @ midband (dBW)	44,6 @PLin30	47,8 @PLin30	51,6 @PLin26	55 @PLin30	52,9 @PLin20	53,9 @PLin20	51,0 @PLin20
G/T @ 20° EL [dB/K]	17,5 (typ)	17,5 (typ)	17,5 (typ)	17,5 (typ)	18.2 (typ)	18.2 (typ)	17.4 (min) 18.2 (typ)
Typ Power (W AC) w/o options	27	65	82	217	74	84	250
Terminal weight (kg)	12,8 (28,2lbs.)	13,8 (30,3lbs.)	13,6 (29,9lbs.)	14 (30,8lbs.)	13,1 (28,8lbs.)	13,1 (28,8lbs.)	20 (44,1lbs.)
Packaged in Back-pack 84 x 44 x 34 cm [kg]	17 (37lbs.)	18 (39lbs.)	17 (38lbs.)	18 (39lbs.)	17 (37lbs.)	17 (37lbs.)	24 (52lbs.)
Packaged in Hardcase 95 x 51 x 48 cm [kg]	24 (53lbs.)	25 (55lbs.)	25 (54lbs.)	25 (55lbs.)	24 (53lbs.)	24 (53lbs.)	31 (69lbs.)
Antenna pointing	Manual pointing through external compass, inclinometer and/or mobile phone						Assisted manual pointing with guidance LEDs or web-based GUI
Baseband kits	See options below for suggested Modem ODU's						PIM module (integrated iDirect CX751)
Available Options:	**Options Description**						
Sat Router SRM200	iDirect 950mp based ODU attached to reflector backside. Weight: 4.5 kg, Power: 55W						N/A
Evolution X1 Outdoor	iDirect X1 based ODU attached to reflector backside, weight: 2.3 kg,						N/A
HT2600 Series	Hughes HT2600 ODU attached to the reflector backside, weight: 4,08kg						N/A
H-plus ODU	Comtech H-plus ODU attached to the reflector backside, weight: 11,6kg						N/A
Additional ODU's can be made available upon request							N/A

Notes:
Polarization acronyms: CCrP - Circular Cross Pol, CCoP - Circular Co Pol, LCrP - Linear Cross Pol, LCoP - Linear Co Pol
PLin30 defined as spectral re-growth (OQPSK, 1 symbol rate offset) -30dBc, PLin26 as -26dBc etc.
P1dB is only used for GaAs designs and can not be measured for GaN designs (where Spectral re-growth is used as a linearity metric)
CFE = Customer Furnished Equipment

COMPLEMENTARY SOLUTIONS

GATE SERIES
Remote Networking Systems

RPM SERIES
Portable Power Modules

MAXVIEW ENTERPRISE
Network Monitor and Control Software

ABERDEEN MD | ATLANTA GA | COLORADO SPRINGS CO
DUBAI | NEW DELHI | STOCKHOLM