

7-6010 DACU8b

CHELTON

Anti-Jam GPS DACU (8-Channel)

Key features:

- Nulling and beamsteering
- GPS L1 L2 P(Y) code
- In use on KAI KF-21

The DACU8b mitigates broadband interference by creating directed nulls and steered beams in the antenna pattern. These techniques provide significant anti-jam protection even in highly dynamic, multi-jammer environments.

The DACU8b can be customised to suit a variety of EGI interfaces in order to received the required information for beam steering control. The DACU8b is in use on KAI KF-21 (formerly known as KF-X), using a Honeywell EGI.

The DACU is designed for size and weight constrained platforms, such as small airborne and unmanned installations, but is suited to larger sized aircraft. The DACU includes the ability to determine the direction of multiple spatially separated jammers with an accuracy of better than 5 degrees when the system is calibrated to the aircraft platform.



7-6010 Front



7-6010 Rear

Chelton is able to provide a complete anti-jam solution for the platform. Installations can make use of a variety of CRPA options and cabling lengths, to best suit the form factor requirements of the platform. The DACU interfaces the antenna array to the GPS receiver.

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ELECTRICAL

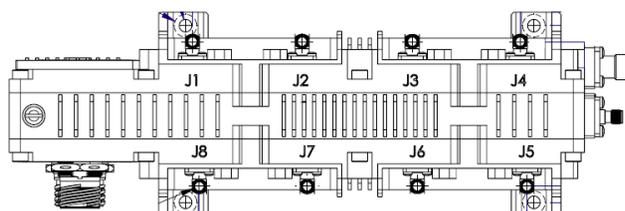
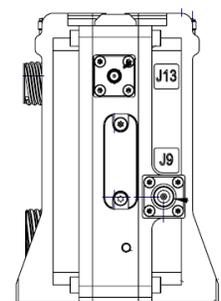
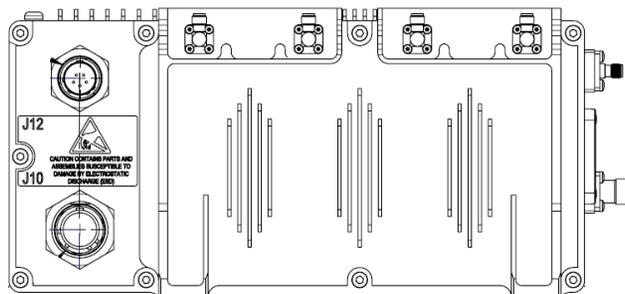
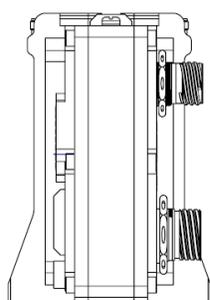
Power Consumption:	< 50 W (Continuous) 58 W (pk for <5s)
Input Voltage	28 V dc (nominal) (+16 V min to +32 V max)
Maximum RF Input:	< -10 dBm
VSWR	Better than 2:1
Noise Figure	< 5 dB
Gain	+15 dB to +35 dB
Connectors	
RF In	SMA Female (8 off)
RF Out	TNC Female
Dig Out (SERDES)	SMA Female
Power	D38999/24FB5PN
Data	D38999/24FC35PN

MECHANICAL

Height:	128 mm (5.04")
Width:	86 mm (3.39")
Length:	256mm (10.08")
Max Weight:	2.25 kg (4.96 lbs)
Mounting:	4 holes fixed location

ENVIRONMENTAL

High Temperature:	MIL-STD-810G_CHG-1, Meth 501.6 Operational: +71°C Storage: +90°C
Low Temperature:	MIL-STD-810G_CHG-1, Meth 502.6 Operational: -40°C Storage: -55°C
Altitude:	MIL-STD-810G_CHG-1, Meth 500.6 55,000 ft (maximum)
Temperature Shock:	MIL-STD-810G_CHG-1, Meth 503.6
Contamination by Fluids	MIL-STD-810G_CHG-1, Meth 504.2
Waterproofness	MIL-STD-810G_CHG-1, Meth 506.6
Humidity	MIL-STD-810G_CHG-1, Meth 507.5
Fungus Resistance	MIL-STD-810G_CHG-1, Meth 508.7
Salt Fog	MIL-STD-810G_CHG-1, Meth 509.6
Dust	MIL-STD-810G_CHG-1, Meth 510.6
Acceleration	MIL-STD-810G_CHG-1, Meth 513.7
Vibration	MIL-STD-810G_CHG-1, Meth 514.7
Mechanical Shock	MIL-STD-810G_CHG-1, Meth 516.7
Gunfire Shock	MIL-STD-810G_CHG-1, Meth 519.7
EMC	MIL-STD-461G CE101, CE102, CE106, RE102, CS101, CS103, CS104, CS114, CS115, CS116, CS118, RS103
Indirect Lightning	RTCA/DO-160G Section 22 A2J2L2



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