

D400 and D600 BUC/BDC/LNB Driver units








The **D400 and D600 Driver units** are flexible and configurable to customer specific requirements. They are designed to supply DC power and/or a reference frequency to a remote mounted Block DownConverter (BDC), Low Noise Block (LNB) or Block UpConverter (BUC). These units are ideal in the situation where the connecting modulator cannot supply a suitable external DC supply or when the modulator reference frequency is either unavailable or has insufficient stability for the application. The Driver units are 19 inch rack mounted and can be powered from 230 or 110 volts.

The **D400** unit is designed for use with a **BDC or LNB**. These units can supply up to 24VDC at typically 500mA and can incorporate a locking reference frequency of typically 10MHz. The supply to the BDC/LNB is a composite of DC, Reference and the received L-Band signal. The output of the D400 unit is the L-Band signal.

The **D600** units are designed for use with a **BUC**. These units can supply up to 24VDC at typically 500mA and can incorporate a locking reference frequency of typically 10MHz. The supply to the BUC is a composite of DC, Reference and the L-Band signal to be transmitted. The input of the D600 unit is the L-Band signal.

Peak Features

-  Optional multiple L-Band inputs on the **D400** or outputs on the **D600**.
-  Optional High stability Reference system.
-  Optional DC drive of typically 17-24VDC at 500mA (or higher).
-  Optional Redundant Power Supplies with dual mains input.
-  Full Alarm monitoring.



D400, D600 – Typical Specification

Basic Specification

L-Band frequency	900 - 2100MHz
L-Band connections	N-type (f), 50Ohm
Input Option 5a	Dual L-Band input (D400) or output (D600).
Input Option 5b	Quad L-Band input (D400) or output (D600).
L-Band Loss	
With DC drive	1dB
With Ref. drive	5dB
	<i>For Amplification options please consult the factory (Option 6).</i>
Maximum input	+16dBm

DC Drive Generation – Option 1

Drive	Fed to BDC/LNB/BUC on L-Band co-axial cable. Option 1a; Fed via a separate, 9-way, D-Type connector.
Voltage	+17 to 24VDC (factory settable, please specify on order).
Current	500mA typ. (for higher please consult the factory).

Reference Drive Generation – Option 2

Drive	10MHz
Option 2a	5MHz
Option 2b	50MHz
Option 2c	100MHz
Power	0dBm +/-3dB
Stability	<5x10 ⁻¹⁰ over 1s, <5x10 ⁻⁹ per day
Ageing	<5 x 10 ⁻⁷ per year
Temp. stability	<5 x 10 ⁻⁸ over 0 to 50°C
	High stability - Option 3
Stability	<2x10 ⁻¹² over 1s, <2x10 ⁻¹⁰ per day
Ageing	<2 x 10 ⁻⁸ per year
Temp. stability	<2 x 10 ⁻⁹ over 0 to 50°C

External Reference Input – Option 4

Frequency	10MHz (5MHz factory settable)
Level	0dBm ±3dB
Connector	BNC (f), 50Ohm

Mechanical

Width	19" standard rack mount
Height	1U (1.75")
Depth	420mm (16.5"), plus connectors
Construction	Aluminium chassis
Weight	4kgs (8.8lbs)

Environmental

Operating temp.	0°C to +50°C
EMC	EN 55022 part B & EN 50082-1
Safety	EN 60950

Power Supply (2off redundant with Option 7)

Voltage	115/230VAC±10%, Selectable.
Frequency	50/60Hz
Total power	20 Watts typ., depending upon DC supply option.
Redundancy (Option 7)	Provides a redundant power supply configuration with separate prime power inputs.

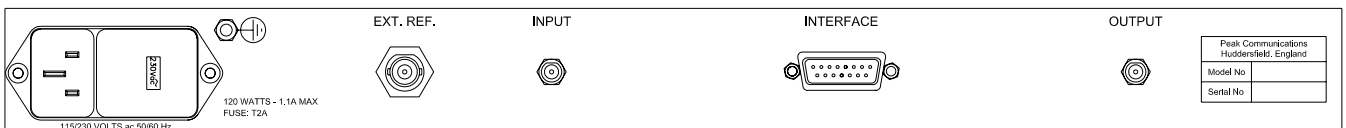
Control System Interface

Alarms	PSU fail LO lock fail (with Option x)
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Options

- 1) DC drive on L-Band.
- 1a) DC drive via separate connector.
- 2) Reference drive generator (10MHz).
- 2a) Reference drive generator (5MHz).
- 2b) Reference drive generator (50MHz).
- 2c) Reference drive generator (100MHz).
- 3) High Stability internal reference generator.
- 4) External Reference input.
- 5a) Dual TX/RX L-Band interfaces.
- 5b) Quad TX/RX L-Band interfaces.
- 6) L-Band Amplification (Please consult the factory, stating the requirement).
- 7) Redundant power supply.

Rear panel View



Peak Communications reserves the right to alter the specifications of this equipment without prior notice. D400,600-310810.

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