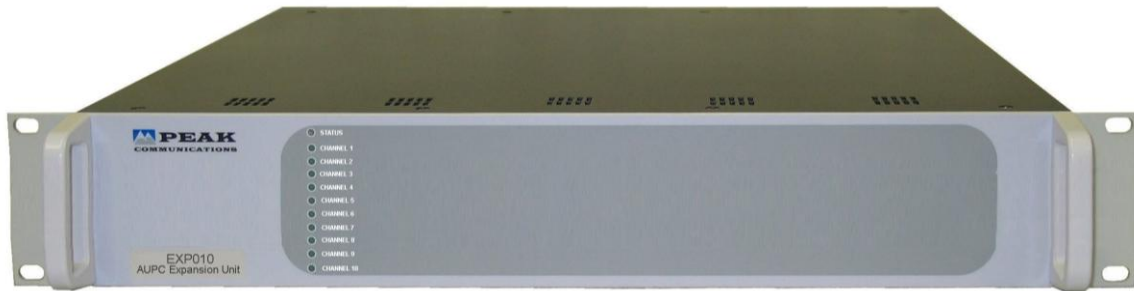


EXP010

10-Channel Expansion Unit for use with the UPC7000 Automatic Up-Link Power Control Unit







The **EXP010** is an expansion unit for the UPC7000series of automatic UpLink power controllers. It can house up to 10 **MPC001** attenuation channels, each of which are modular, 'hot-swappable' and can be inserted/ replaced in the **EXP010** from the rear without the need to remove power or disturb the other channels in any way.

The **MPC001** adjustable Attenuator modules are positioned in the UpLink chain in either the IF (70MHz \pm 18MHz or 140MHz \pm 36MHz) or the L-Band (950-2150MHz) signal path. Each module houses a single adjustable IF or L-Band Attenuator channel and can be fitted with fail-safe switching option. The modules are controlled by the **UPC7000** unit via an interface cable (supplied).

The **EXP010** chassis is mains powered with dual (redundant), modular, hot-swappable power supplies, as standard.

Peak Features

-  Flexible; modular, 'hot-swappable', expandable solution
-  Integral multi-channel UpLink power control facility with optional fail-safe 'Bypass' mode
-  Full alarm monitoring
-  Redundant Power Supplies with dual mains input



EXP010 chassis – Typical Specification

Number of channels 1 to 10 (each MPC001 denotes a single channel)

MPC001 - RF Performance

UpLink signal type	L-Band (950-2150MHz), SMA (f), 50Ohm
Option 3;	IF 70±18MHz/ 140±36MHz, SMA (f), 50Ohm
1 dB GCP	Input 0dBm, Output +1dBm
Return loss	>15dB (input and output)
Attenuation control	0-30dB, stepped 0.1dB
Insertion loss	1dB (L-Band), at min attenuation
Gain stability	±0.5dB from 0 to 40°C, ±0.1dB per week (constant temp.)
Gain flatness	±1.0dB full band (±1.5dB 950 – 2150MHz option) ±0.5dB across any 36MHz in band

Fail- safe bypass (Option 5)

Bypass mode	Fail-safe switching to external user selectable pad
Bypass connection	SMA (f), 50Ohm (2 connections per channel)
Bypass Insertion Loss	1dB (plus external pad fixed attenuation value)

Other

Mechanical

Width	19", standard rack mount
Height	2U (3.5")
Depth	534mm (21"), plus connectors
Construction	Stainless Steel chassis
Weight	
EXP010	Approx. 4kgs (9lbs)
MPC001	Approx. 0.5kg (1lbs)

Environmental

Operating temp	-10°C to +50°C
EMC	EN55022 part B & EN50082-1
Safety	EN60950

Power supply (dual, redundant)

Voltage	90-264VAC
Frequency	47-63Hz
Power	100 Watts max. (10 channels installed)

Note; typical power depends upon options selected, for details please contact the factory

Control System

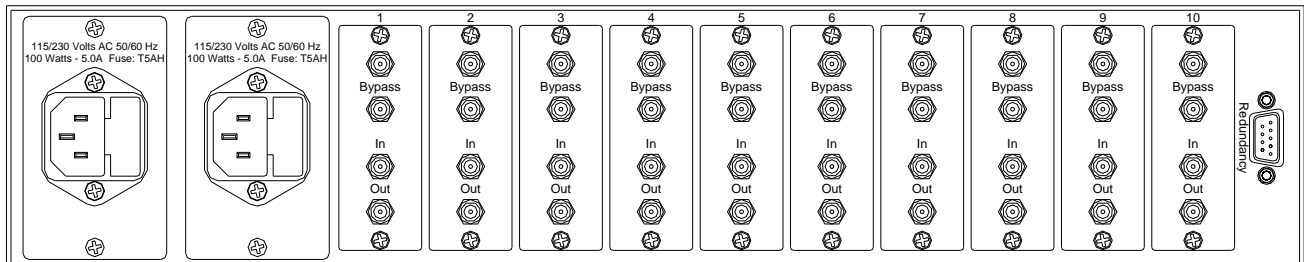
Signal type	Data over CANBUS®
Connection	9-way D-Type (f)
Alarms	PSU 1 & 2 fail

Options

- 3) 70MHz or 140MHz internal UpLink interface
- 5) Fail safe by-pass switching for uplink channels
- 5b) Fail safe by-pass attenuator links (value to be defined by customer)

Note; the addition of options can modify the typical specification, for details please consult the factory

Rear Panel View



Peak Communications reserves the right to alter the specifications of this equipment without prior notice. EXP010-160511.

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