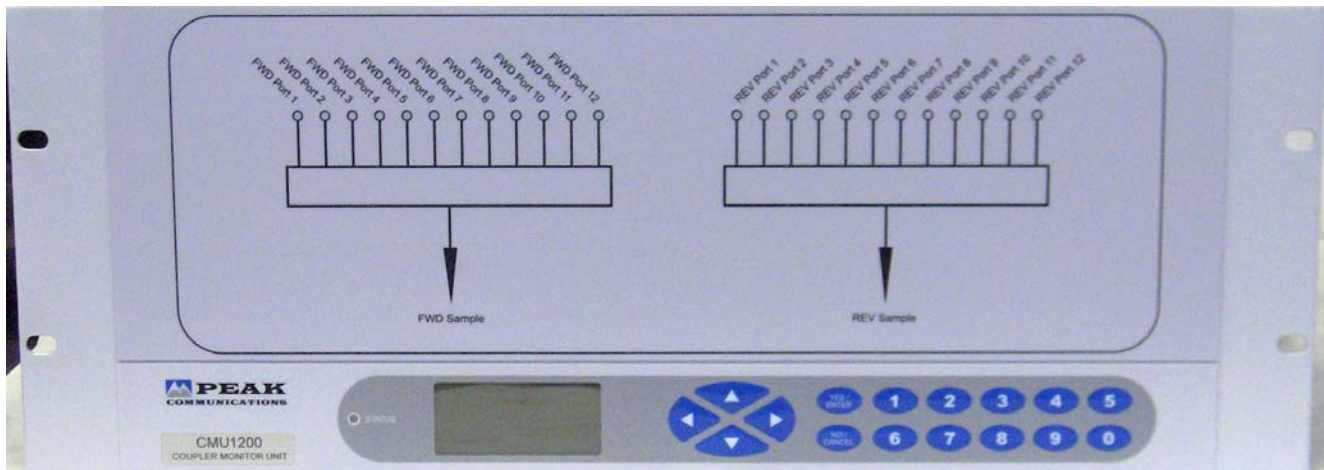


## UHF Switching, Monitoring & Signal Conditioning Systems



These units are flexible and configurable to customer specific requirements. They are designed to allow patching and remote monitoring of up to 12 separate UHF channels, whilst having the flexibility to include Amplification, filtering and other application/customer specific signal conditioning features. In addition, packaged Filters (TX reject etc.), Amplifiers and other items can be provided along with features such as Fiber-optic interfaces for cross-site applications.










These high quality units are all 19 inch rack mounted and can be powered from nominally 230 or 110 volts, with UHF or monitoring interfaces either on the front or rear panels (or a combination of both). Ruggedly constructed, they utilise high quality parts from reputable supply sources offering optimum system reliability.

The **CMUseries** of units are designed specifically to monitor up to 12 UHF channels. The channel to be monitored can be selected locally, remotely or set to 'poll' all channels. With forward and reverse coupling and a range of available coupling factors, the **CMUseries** contain the necessary switching, routing, processing and control circuitry to implement a full local or remote (RS232/485/Ethernet) based UHF monitoring system.

The **PPseries** of units are designed specifically as UHF patch panels that allow the system operator to easily reconfigure the UHF circuit locally as operational demands change. Inputs and outputs are located on the rear panel, with patch 'links' provided on the front of the unit.

The **DAH200series** Dual, 'Hot swappable', modular, UHF amplifiers are designed to provide low power Amplification in a compact and easily maintainable configuration for ultimate system availability. Modules can be easily inserted/ replaced in the **DAH200series** 1U high unit from the rear, without the need to remove power or disturb the other channel in any way.

### Peak Features

-  Low loss and low ripple.
-  Exceptional channel to channel isolation.
-  Other frequency bands available.
-  Flexibility in use, for easy system re-configuration.
-  Optimal reliability through use of highest quality parts.
-  Ease of maintenance for optimal system availability.
-  Flexibility in design allows custom/application specific designs to be considered.
-  Dual 'Redundant' Power Supplies with dual mains inputs available.
-  Full remote control and alarm monitoring.



## CMUseries – Typical Specification

### Basic Specification

|                    |                                     |
|--------------------|-------------------------------------|
| UHF frequency      | 200 - 350MHz (or custom specific)   |
| Channels           | 4, 6, 8, or 12 (or custom specific) |
| Input power        | 50W max.                            |
| Connectors         | N-type (f) 50Ohm (rear panel)       |
| Return Loss        | 19dB min                            |
| Isolation          | 45dB min.                           |
| I/P to O/P Loss    | 0.5dB max                           |
| Coupling loss      | 10, 20 or 35dB nom.                 |
| Coupling variation | ±1dB                                |
| Switching time     | 500ms max.                          |

### Power Supply (2off in redundant configuration)

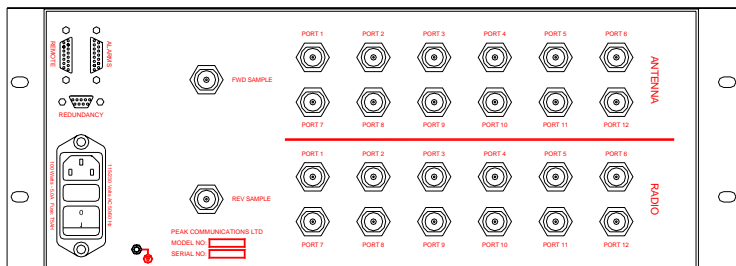
|             |                                  |
|-------------|----------------------------------|
| Voltage     | 115/230VAC±10%,<br>Auto-ranging. |
| Frequency   | 50/60Hz                          |
| Total power | 50 Watts typ.                    |

### Mechanical

|              |                                   |
|--------------|-----------------------------------|
| Width        | 19" standard rack mount           |
| Height       | up to 4U, depending upon channels |
| Depth        | 420mm (16.5"), plus connectors    |
| Construction | Aluminium chassis                 |
| Weight       | 10kgs (22lbs)                     |

### Control System Interface

|                |  |
|----------------|--|
| Remote Control | RS232/RS485 port.<br>Ethernet with SNMP network<br>management support (Optional) |
| Alarms         | PSU fail   |



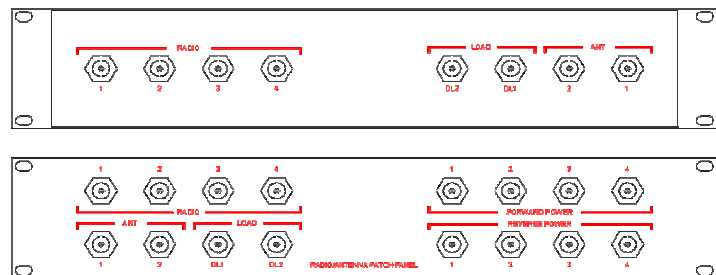
## PPseries – Typical Specification

### Basic Specification

|                 |  |
|-----------------|--|
| UHF frequency   | 200 - 350MHz   |
| Channels        | 4, 6, 8, or 12 (or custom specific)                      |
| Input power     | 50W max.   |
| Connectors      | N-type (f), 50Ohm (I/P & O/P on rear, patching on front) |
| Isolation       | 45dB min.  |
| I/P to O/P Loss | 0.2dB max  |

### Mechanical

|              |  |
|--------------|--|
| Width        | 19" standard rack mount                |
| Height       | 1 or 2U (depending upon configuration) |
| Depth        | 420mm (16.5"), plus connectors         |
| Construction | Aluminium chassis                      |
| Weight       | 2kg (4.4lbs)                           |



## DAHseries – Typical Specification

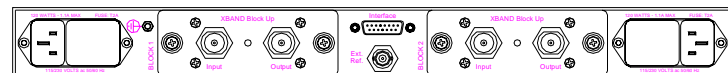
### Basic Specification

|                |                                |
|----------------|--------------------------------|
| UHF frequency  | 200 - 350MHz                   |
| Gain           | 20dB typ.                      |
| RF Input power | -10dBm max.                    |
| 1dB Output GCP | +15dBm typ.                    |
| Gain stability | ±0.5dB from 0 to 40°C          |
| Gain flatness  | ±0.5dB full band               |
| Channels       | 2                              |
| Connectors     | N-type (f), 50Ohm (rear panel) |
| Isolation      | 60dB min.                      |

The above is provided as a guide, giving a typical specification, please consult the factory for custom requirements.

### Mechanical

|              |                                |
|--------------|--------------------------------|
| Width        | 19" standard rack mount        |
| Height       | 1U (1.75")                     |
| Depth        | 400mm (15.7"), plus connectors |
| Construction | Aluminium chassis              |
| Weight       | 5kg (11lbs)                    |



## General Specification

### Environmental

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



Peak Communications reserves the right to alter the specifications of this equipment without prior notice. UHFseries-300107.

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