

## Ku-BAND MULTICOUPLER (10.95 - 12.75GHz)

This Ku-Band Multicoupler is available for 19" wide and 1U high rack mountable systems. It offers 4 equal outputs between 10.95 - 12.75GHz. It is easily controlled and monitored remotely, using TCP/IP interface and has capability of allocating a unique IP address. The system could be easily controlled with standard software programs such as Labview, Labwindows, C, C++ etc.

- ### FEATURES
- Wideband - input/output
  - Up to 4 hours of battery backup available
  - Up to 1 Watt of NO DAMAGE input power level protection
  - Remote monitoring and control
  - Sturdy 19" rack mountable case
  - TCP/IP RJ45 connection for remote monitoring
  - Internal capability of allocating unique IP address
  - Capable of a unique IP address

- ### APPLICATION
- Satellite Communication
  - Weather Radar
  - ATE signal source
  - Civil Aviation Radar
  - Defense application
  - Broadcast

### Electrical Specification:

| Parameter                                | Specification | Units |
|--|---------------|-------|
| Frequency Range                          | 10.95 - 12.75 | GHz   |
| Number of inputs                         | 1             | -     |
| Number of outputs                        | 4             | -     |
| P1 dB                                    | >10           | dBm   |
| Noise figure                             | <6            | dB    |
| Gain                                     | 15            | dB    |
| Gain flatness                            | ±0.5          | dB    |
| Port to port isolation                   | >50           | dB    |
| Isolation between output ports           | >50           | dB    |
| NO damage input level                    | >1            | Watt  |
| Input/Output return loss across the band | >20           | dB    |
| Input Power detector                     | >-30          | dBm   |
| Mean Time Between Failure (MTBF)         | 50,000        | Hours |



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### Physical Specification:

|                          |               |          |
|--------------------------|---------------|----------|
| <b>Output connectors</b> |               | N-Type   |
| <b>Output impedance</b>  |               | 50Ω      |
| <b>Input Connector</b>   |               | N-Type   |
| <b>Input Impedance</b>   |               | 50Ω      |
| <b>Dimension</b>         | <b>Width</b>  | 19 inch  |
|                          | <b>Height</b> | 1U       |
|                          | <b>Depth</b>  | <250 mm. |
| <b>Weight</b>            |               | <5kg     |

### System Control:

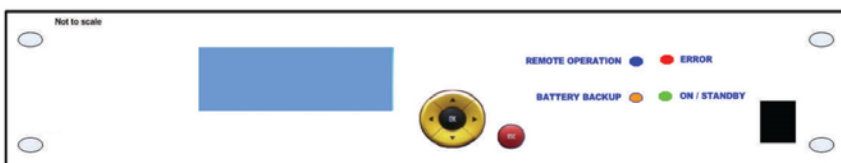
|                              |                  |   |
|------------------------------|------------------|---|
| <b>Local Control</b>         |                  | Front Panel push buttons and LCD display        |
| <b>Remote Control</b>        | TCP/IP           | RJ45 Ethernet Port                              |
|                              | RS232            | 9 pin D-type Female                             |
| <b>Front Panel Alarms</b>    | Power On         | LED   |
|                              | Error            | LED   |
|                              | Remote Operation | LED   |
| <b>Operational Modes</b>     |                  | Front Panel or remote is selected automatically |
| <b>IP Address allocation</b> |                  | Using telnet with Raw TCP/IP connection         |

### Environmental Specification:

|                                    |                     |
|------------------------------------|---------------------|
| <b>Operating temperature range</b> | 0 to 55°C           |
| <b>Location</b>                    | Indoor use only     |
| <b>Humidity</b>                    | -90% non-condensing |
| <b>Storage temperature</b>         | -40 to +85°C        |

### AC power:

|                  |                 |
|------------------|-----------------|
| <b>Voltage</b>   | 85 - 264V AC    |
| <b>Frequency</b> | 50 - 60 Hz      |
| <b>Socket</b>    | IEC Standard    |
| <b>Fuses</b>     | 5x20mm standard |



#### Other options available:

- Higher P1 dB point available
- No gain at all
- Longer battery life available
- SMA input/output connector available

Data sheet is for information purposes only and may be subject to modifications or may be discontinued without notice. *Rev. 1 dated 02-01-2015*