

DIGIREP MULTIBAND

698 - 2690 MHz

MULTI BAND/MUTI OPERATOR/ 2G 3G 4G
REMOTE MONITORING/BAND FILTER



Key Features

The **Digirep®Multiband** is the ultimate radio equipment for communications continuity on the areas or premises that are not directly covered.

Main Features: Multi sub-band filters, no-linearity pre-correction.

Smart, product, with automatic settings in commissioning, plug and play and easy remote configuration changes.

Advantages

- ☑ Digital filtering
- ☑ 48 vdc or 230 Vac
- ☑ Remote configuration, monitoring and control
- ☑ Multi band & Multi operators
- ☑ Automatic gain control
- ☑ Indoor or outdoor installation



Specifications

Technical characteristics slot repeter RF

| Frequency range | | 700/800/900/1800/2100/2600 MHz | | | | | |
|-----------------------------------|--------------------|--|---------|-----------|--------------------|-----------|-----------|
| Frequency band | UPLINK | 758~788 | 832~862 | 880~915 | 1710~1785 | 1920~1980 | 2500~2570 |
| | DOWNLINK | 703~733 | 791~821 | 925~960 | 1805~1880 | 2110~2170 | 2620~2690 |
| Nominal output composite power UL | | ≤ +36 dBm | | ≤ +34 dBm | | ≤ +36 dBm | |
| Nominal output composite power DL | | ≤ +22 dBm | | | | | |
| Gain (dB) | | Adjustable from 60 to 90 | | | | | |
| Ripple in the bandwidth | Frequency setting | from 200 KHz full band | | | | | |
| | Response frequency | < ± 1 dB | | | | | |
| Noise factor | UPLINK | ≤ 4 dB @ Gain Max | | | ≤ 9 dB @ Gain Min | | |
| | DOWNLINK | ≤ 5 dB @ Gain Max | | | ≤ 12 dB @ Gain Min | | |
| Selectivity | | 40 dB @ ± 400 KHz 50 dB @ ± 600 KHz 55 dB @ ± 1 MHz | | | | | |
| Intermodulation | | ≤ -36 dBm @ ≤ 1 GHz ≤ -30 dBm @ > 1 GHz | | | | | |
| Absolute group delay | | ≤ 5 μs | | | | | |
| Monitoring | | IP RJ45 Access (x2) / 2G_3G_4G Modem / SNMP Compliant | | | | | |
| Maximum entry BS & MS | | 20 dBm without degradation of specifications and compliance with standards / + 0dBm without damage | | | | | |
| Conformity | | 3GPP compliant | | | | | |

Electrical characteristics slot repeter RF

| Frequency band | 700 | 800 | 900 | 1800 | 2100 | 2600 |
|-------------------------|--|-----|-----|------|------|------|
| Voltage | 28 VDC | | | | | |
| Consumption | ≤ 80 W | | | | | |
| Dimensions | 177 mm (4U) x 77 mm (15TE) x 393 mm | | | | | |
| Weight | 7 kg | | | | | |
| Connectors | < QN femelle | | | | | |
| Protection indice/class | IP68 / IK9 | | | | | |
| Signalisation | LED tricolore (Green / Yellow / Red) + 1 dry loop | | | | | |

Band filter characteristics

| Frequency band | 700/800 | 900 | 1800 | 2100 | 2600 | |
|-------------------------------|------------------------------|------------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|
| Number of rejection by filter | ≤ 12 | | | | | |
| For each filter | Adjustable bandwidth | From 100 kHz to 30 MHz | From 200 kHz to 35 MHz | From 200 kHz to 75 MHz | From 100 kHz to 60 MHz | From 100 kHz to 70 MHz |
| | Adjustable frequency central | From f_0 to $f_0 + 15$ MHz | From f_0 to $f_0 + 17.5$ MHz | From f_0 to $f_0 + 35$ MHz | From f_0 to $f_0 + 30$ MHz | From f_0 to $f_0 + 35$ MHz |
| | Setting mitigation | de 0 dB à 30 dB | | | | |

Technical characteristics MS/BS multiplexeur 5 bands

| Frequency band | 700/800 | 900 | 1800 | 2100 | 2600 |
|----------------|---------|-----|------|------|------|
| Insertion loss | 0.8 dB | | | | |
| Isolation | ≥ 20 dB | | | | |
| VSWR | 1,5 : 0 | | | | |

Mechanical characteristics MS/BS multiplexeur 5 bands

| Frequency band | 700/800 | 900 | 1800 | 2100 | 2600 |
|------------------------|------------------------------|---------------|------|------|------|
| Dimensions (L x H x P) | 177 mm (4U) x 76 mm x 200 mm | | | | |
| Weight | 3 kg | | | | |
| VSWR | Antennas | 2x Nf | | | |
| | Rf slot | 10x QN female | | | |

Electrical characteristics system

| | |
|-------------|---------------------------------------|
| Voltage | 230V DC or 48V DC / In option 100V DC |
| Consumption | 500 W |
| Efficacy | 86% |

Mechanical characteristics ventilation

| | |
|-------------------------------|-------------------------|
| Dimensions (L x H x P) | 344 mm x 167 mm x 39 mm |
| Weigh | 0.75 Kg |
| Efficacity | 86% |

Electrical characteristics ventilation

| | |
|-----------------------|----------|
| Voltage | 24 V DC |
| Consumption | 6 W |
| Connector (X1) | Binder F |

Mechanical characteristics rack

| | |
|---|---------------------------------|
| Dimensions (L x H x P) | 177 mm (4 U) x 482.6 mm x 446mm |
| Weight (Multiplexer included) | 10 kg |
| Total weight (full rack) | 42 kg |
| Operating temperature range (full rak) | De -20° à +50° |



For more information: www.see-critical.com

