

<b>DATASHEET</b>	Pages : 3 Reference : 010003G
<b>DIGIREP®</b> <b>GSM 2G /UMTS 3G /LTE 4G</b>	Date of application : 04/08/2015

❖ **General Description :**

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

Main Features: Multi sub-band filters, Echo canceller (3G, 4G), no-linearity pre-correction.

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



📶 **SLOT RF REPEATER 2G/3G/4G**

❖ RF Features		800	900	1800	2100	2600
Frequency band	Down-Link (TX) MHz	791~821	925~960	1805~1880	2110~2170	2620~2690
	Up-Link (RX) MHz	832~862	880~915	1710~1785	1920~1980	2500~2570
Nominal output composite power DL		≥ +36 dBm	≥ +34 dBm		≥ +36 dBm	
Nominal output composite power UL		≥ +22 dBm				
Gain (dB)		Adjustable from 60 to 90				
Operating bandwidth	Frequency adjustment	From 200 KHz to full band				
	Frequency response	< ± 1 dB				
Noise factor	Up-Link (RX)	≤ 4 dB @ Max Gain		≤ 9 dB @ Min Gain		
	Down-Link (TX)	≤ 5 dB @ Max Gain		≤ 12 dB @ Min Gain		
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		WIFI / IP RJ45 Access (x2) / 2G_3G_4G Modem / SNMP Compliant				
Max input level on BS and MS		-10 dBm with no damage / until 0 dBm on the BS				
Conformity		3GPP Compliant				

✚ SLOT RF		
<b>❖ Mechanical features</b>		<b>All Bands</b>
Power Supply voltage		28 VDC
Power consumption	<i>High Power</i>	≤ 80 W
Dimensions	<i>High Power</i>	177 mm (4U) x 77 mm (15TE) x 393 mm
Weight	<i>High Power</i>	7 kg
Connectors		N female
Rating class / Ingress protection		IP68 / IK9
Signaling		One tricolor led (Green / Yellow / Red) + 1 Dry Loop

✚ SUB-BAND FILTERING						
<b>❖ Features</b>		800 MHz	900 MHz	1800 MHz	2100 MHz	800 MHz 2600 MHz
Number of rejection filters		≤ 12				
For each filter	<i>Adjustable Bandwidth</i>	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
	<i>Adjustable Central frequency</i>	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
	<i>Adjustable Attenuation</i>	from 0 dB to 30 dB				

✚ MS/BS MULTIPLEXER 5-BAND						
<b>❖ RF Features</b>		800	900	1800	2100	2600
	<i>Down-Link (TX)</i>	791~821 MHz	925~960 MHz	1805~1880 MHz	2110~2170 MHz	2620~2690 MHz
	<i>Up-Link (RX)</i>	832~862 MHz	880~915 MHz	1710~1785 MHz	1920~1980 MHz	2500~2570 MHz
Insertion loss		0.8 dB				
Isolation		≥ 20 dB				
VSWR		1,5 : 0				
<b>❖ Mechanical Features</b>		<b>All bands</b>				
Dimensions (L x H x D)		177 mm (4U) x 76 mm x 200 mm				
Weight		3 kg				
Connectors	<i>To Antennas</i>	2x Nf				
	<i>To RF slots</i>	10x QN female				

✚ **POWER SUPPLY VOLTAGE**

<b>❖ Electrical Features</b>	
Voltage	230 Vac or 48V DC
Power issued	500 W
Efficiency	86%
<b>❖ Interface</b>	
Electrical connector	Supplied cable XK 12 F
<b>❖ Mechanical Features</b>	
Dimensions	177 mm (4 U) x 46 mm (9TE) x 370 mm
Weigth	2.800 kg

✚ **Cooling**

<b>❖ Electrical Features</b>	
Voltage	28 V DC
Power consumption	6 W
Connector (x1)	Binder F
<b>❖ Mechanical Features</b>	
Dimensions (L x H x D)	344 mm x 167 mm x 39 mm
Weigth	0.75 Kg

✚ **RACK**

<b>❖ Mechanical Features</b>	
Dimensions (L x H x D)	177 mm (4 U) x 482.6 mm x 446mm
Weigth (multiplexer included)	10 kg
Total weight (full Option)	42 kg



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