

# Digital Channel Selective Repeater

## GSM 1800 MHz

### PRODUCT FEATURES

- Support up to 12 GSM Channels
- Digitalized Antenna Feedback Cancellation (AFC) function to reduce the antenna isolation requirement up to 30 dB
- Dynamic Uplink Noise Control (UNC) function to reduce Uplink Interference by automatically switch off the corresponding carriers when no traffic
- Support carrier tracing
- 10 W Downlink Output Power utilizing ultra Linear PA, supports GSM, GPRS and EDGE
- With built-in GSM modem, supports remote alarm monitoring and configuration based on the unified OMT / OMC platform
- IP65 Chassis, designed for all outdoor application – waterproof, damp-proof and omni-sealed



TECHNICAL SPECIFICATIONS	RP18-CS40-CA00
<b>ELECTRICAL</b>	
<b>FREQUENCY RANGE, UPLINK</b>	1710 – 1735
<b>FREQUENCY RANGE, DOWNLINK</b>	1805 – 1830
<b>INSTANTANEOUS BANDWIDTH</b>	25
<b>NUMBER OF CHANNELS</b>	4 or 8 or 12
<b>TOTAL OUTPUT POWER, UPLINK</b>	33 dBm
<b>TOTAL OUTPUT POWER, DOWNLINK</b>	40 dBm
<b>MAXIMUM SYSTEM GAIN</b>	100
<b>GAIN ADJUSTMENT RANGE</b>	0 - 30 dB
<b>FEEDBACK CANCELLATION</b>	30 dB
<b>CHANNEL SELECTIVITY</b>	
@ ±400 KHz	> 50 dB
@ ±600 KHz	> 55 dB
@ ±1 MHz	> 60 dB
<b>INTERMODULATION</b>	≤ 45 dBc
<b>IN BAND SPURIOUS</b>	
1710-1785 /1805-1880 MHz	≤ 60 dBc
<b>OUT OF BAND SPURIOUS EMISSION</b>	
9 KHz to 1 GHz	≤ 36 dBm
1 GHz to 12.75 GHz	≤ 30 dBm
<b>SYSTEM NOISE FIGURE @ MAXIMUM GAIN</b>	≤ 5 dB
<b>SYSTEM GROUP DELAY</b>	≤ 11 μsec
<b>ABSOLUTE MAXIMUM RF INPUT POWER</b>	-10 dBm
<b>INPUT VSWR</b>	≤ 1.5
<b>IMPEDANCE</b>	50 Ohm

POWER, MECHANICAL & ENVIRONMENTAL	
<b>DIMENSIONS, (H x W x D)</b>	430 x 420 x 182 mm
<b>WEIGHT (APPROX.)</b>	25 Kg
<b>POWER SUPPLY</b>	100 – 240 / 47 – 63 Hz
<b>POWER CONSUMPTION (APPROX.)</b>	150
<b>POWER UP WAITING TIME (APPROX.)</b>	120 sec
<b>MCU BATTERY BACKUP TIME (APPROX.)</b>	2 hr
<b>ENCLOSURE COOLING</b>	Convection
<b>RF CONNECTORS</b>	N-Female
<b>OPERATING TEMPERATURE</b>	-33 to +55°C
<b>OPERATING HUMIDITY</b>	≤ 95%
<b>ENVIRONMENTAL CLASS</b>	IP65
<b>MTBF</b>	≥ 50,000