

Digital Channel Selective Repeater

GSM 900 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
- 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
- Ideal for urban area coverage extensive / optimizations for both indoor and outdoor applications
- Single pole installation for Coverage extension applications with AFC to reduce the antenna isolation requirement
- Dense urban area deployment (i.e., multiple units in same donor sector) with UNC to reduce uplink interference



TECHNICAL SPECIFICATIONS	RP09-CS40-CAxx	
ELECTRICAL		
FREQUENCY RANGE, UPLINK	890 – 915	
FREQUENCY RANGE, DOWNLINK	935 – 960	
NUMBER OF CHANNELS	4 or 8 or 12	
TOTAL OUTPUT POWER, UPLINK	33 dBm	
TOTAL OUTPUT POWER, DOWNLINK	40 dBm	
MAXIMUM SYSTEM GAIN	100 dB	
GAIN ADJUSTMENT RANGE	0 - 30 dB	
FEEDBACK CANCELLATION	30 dB	
CHANNEL SELECTIVITY	at ±400 KHz	>50 dB
	at ±600 KHz	>55 dB
	at ±1 Mhz	>60 dB
INTERMODULATION	≤ 40 dB	
IN BAND SPURIOUS (890-915 /935-960 MHz)	≤ 60 dBc	
OUT OF BAND SPURIOUS EMISSION	9 KHz to 1 GHz	≤ 36 dBm
	1 GHz to 12.75 GHz	≤ 30 dBm
SYSTEM NOISE FIGURE @ MAXIMUM GAIN	≤ 5 dB	
SYSTEM GROUP DELAY	≤ 11 μsec	
ABSOLUTE MAXIMUM RF INPUT POWER	10 dBm	
INPUT VSWR	≤ 1.5	
IMPEDANCE	50 Ohm	

POWER, MECHANICAL & ENVIRONMENTAL	
DIMENSIONS, (H x W x D)	330 x 420 x 182 mm
WEIGHT (APPROX.)	25 kg
POWER SUPPLY	100 – 240 / 47 – 63 Hz
POWER CONSUMPTION	170 W
POWER UP WAITING TIME (APPROX.)	120 sec
MCU BATTERY BACKUP TIME (APPROX.)	2 hour
ENCLOSURE COOLING	Convection
RF CONNECTORS	N-Female
OPERATING TEMPERATURE	-33 to +55°C
OPERATING HUMIDITY	≤ 95%
ENVIRONMENTAL CLASS	IP65
MTBF	≥ 50,000