

# Digital Band Selective Repeater

## 1800 MHz

### PRODUCT FEATURES

- 4 pass band segments with independent ON/OFF for maximum flexibility
- 10 W total output power
- Integrated wireless modem for remote configuration, monitoring and control
- Internal backup battery keeps the alarm unit running for up to two hours after power failure
- Support offline isolation detection
- Compatible to our generic OMT and OMC platform
- Designed for all weather outdoor installation – waterproof, damp-proof and omni-sealed (IP65)
- Can be configured as Master Unit (MU) or Slave Unit (SU) in a centralized monitoring system



TECHNICAL SPECIFICATIONS	RP18-BS40-CA00
<b>ELECTRICAL</b>	
<b>FREQUENCY RANGE, UPLINK</b>	1710 – 1785
<b>FREQUENCY RANGE, DOWNLINK</b>	1805 – 1880
<b>INSTANTANEOUS BANDWIDTH</b>	60 MHz
<b>NUMBER OF BAND SELECTIVE SEGMENT</b>	4
<b>OPERATING BANDWIDTH PER BAND SELECTIVE SEGMENT</b>	0.2 - 20 MHz adjustable
<b>TOTAL OUTPUT POWER, UPLINK</b>	30 dBm
<b>TOTAL OUTPUT POWER, DOWNLINK</b>	40 dBm
<b>MAXIMUM SYSTEM GAIN</b>	90
<b>GAIN ADJUSTMENT RANGE</b>	0 - 30 dB
<b>PASS BAND RIPPLE @ FBW, P-P</b>	≤ 5 dB
<b>SYSTEM NOISE FIGURE @ MAXIMUM GAIN</b>	≤ 5 dB
<b>SYSTEM GROUP DELAY</b>	≤ 11 μsec
<b>OUT OF BAND GAIN</b>	
<b>ACRR</b>	
<b>EVM</b>	
<b>UNWANTED EMISSIONS</b>	ETSI EN 301 908-15*
<b>INPUT INTERMODULATION</b>	
<b>OUTPUT INTERMODULATION</b>	
<b>ABSOLUTE MAXIMUM RF INPUT POWER</b>	-10 dBm
<b>INPUT VSWR</b>	≤ 1.5
<b>IMPEDANCE</b>	50 Ohm

\*: Compliance with standard @ DL 40 dBm, UL 23 dBm.

POWER, MECHANICAL & ENVIRONMENTAL	
<b>DIMENSIONS, (H x W x D)</b>	430 x 300 x 164 mm
<b>WEIGHT (APPROX.)</b>	18 kg
<b>POWER SUPPLY</b>	100 – 240 / 47 – 63 Hz
<b>POWER CONSUMPTION (APPROX.)</b>	180
<b>POWER UP WAITING TIME (APPROX.)</b>	180 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