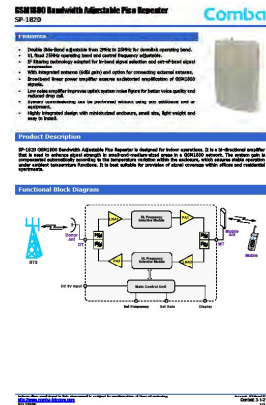


# GSM1800 Bandwidth Adjustable Pico Repeater

1805 – 1855 or 1855 – 1880 and 1710 – 1760 or 1760 – 1785 MHz

## PRODUCT FEATURES

- In-Double Side-Band adjustable from 2 MHz to 25 MHz for downlink operating band
- UL fixed 2.5MHz operating band and central frequency adjustable.
- IF filtering technology adopted for in-band signal selection and out-of-band signal suppression
- With integrated antenna (6dBi gain) and option for connecting external antenna
- Broadband linear power amplifier ensures undistorted amplification of GSM1800 signals
- Low noise amplifier improves uplink system noise figure for better voice quality and reduced drop call
- System commissioning can be performed without using any additional tool or equipment
- Highly integrated design with miniaturized enclosure, small size, light weight and easy to install



TECHNICAL SPECIFICATIONS		RP18-BS15-CA00
<b>ELECTRICAL</b>		
<b>FREQUENCY RANGE, UPLINK</b>		1710 – 1760 or 1760 – 1785 MHz
<b>FREQUENCY RANGE, DOWNLINK</b>		1805 – 1855 or 1855 – 1880 MHz
<b>MAXIMUM SYSTEM GAIN</b>		60 dB
<b>OPERATING BANDWIDTH, UPLINK</b>		2 – 25* MHz
<b>OPERATING BANDWIDTH, DOWNLINK</b>		25** MHz
<b>GAIN ADJUSTMENT RANGE, 1 dB step</b>		0 - 20 dB
<b>OUTPUT POWER, DOWNLINK</b>		
With Integrated Antenna		15 ± 1.5 dBm
Without Integrated Antenna		14 ± 1.5 dBm
<b>OUTPUT POWER, UPLINK</b>		15 ± 1.5 dBm
<b>PASS BAND RIPPLE, P-P</b>		≤ 6 dB
<b>SYSTEM GROUP DELAY</b>		≤ 6 μsec
<b>SYSTEM NOISE FIGURE AT MAXIMUM GAIN</b>		≤ 8 dB
<b>SPURIOUS, ΔF ≥ 1MHz</b>		
9 KHz – 1 GHz		ETSI EN 300
1 GHz – 12.75 GHz		609 – 4 V8.0.2
<b>OUT-OF-BAND GAIN</b>		
<b>INTERMODULATION</b>		
<b>INPUT VSWR</b>		≤ 2.0
<b>ABSOLUTE MAXIMUM RF INPUT POWER</b>		+10 dBm
<b>IMPEDANCE</b>		50 Ohm

\* Sliding DL double side-band adjustable range is 2-25MHz

\*\* UL central frequency adjustable

## POWER, MECHANICAL & ENVIRONMENTAL

<b>DIMENSIONS, (H x W x D)</b>	235 x 150 x 68 mm
<b>WEIGHT</b>	2.5 kg
<b>POWER SUPPLY</b>	90 – 264 VAC / 45 – 65 Hz
<b>POWER CONSUMPTION</b>	20 W
<b>ENCLOSURE COOLING</b>	Convection
<b>RF CONNECTORS</b>	SMA
<b>OPERATING TEMPERATURE</b>	-20 to +40°C
<b>OPERATING HUMIDITY</b>	≤ 85%
<b>ENVIRONMENTAL CLASS</b>	IP40
<b>MTBF</b>	≥ 50,000 hr

## FUNCTIONAL BLOCK DIAGRAM

