

AXENON BSR 940


900 MHz Band Selective Repeater



General

The "AXENON BSR 940" 900 MHz Repeater is a bidirectional superheterodyne receiver/transmitter that offers a quick and cost effective means of extending coverage in new or existing GSM networks helping to provide an instant revenue generating opportunity. Used together with base stations, AXENON BSR 940 can help operators expand the area a single BTS can cover by filling in blind spots caused by the surrounding topology as well as extending coverage into buildings and tunnels.

Features

- Band Selective repeater for 900 MHz systems. Divided band & part band selections are also possible with specific filters
- Output power up to 40 dBm / 1 carrier.
- Gain from 35 to 84 dB, adjustable in 1 dB steps with a Windows ® compatible software.
- Automatic Level Control loops to suppress unwanted disturbing radio signals
- Windows interface for configuring all parameters: uplink and downlink gain, ALC loops, channels, alarms, monitoring in/out power levels.
- Remotely controlled model can be managed with a standard computer with a modem (9600 bauds).
- Manufactured under ISO 9002
- Complies with  Standards

Specifications

Parameter	Level
Work Band (MHz)	DL: 935-960 UL: 890-915
Bandwidth (kHz)	Customisable
OutPut power dBm (1 carrier-1 dB comp)	+40
OutPut power dBm (2 carriers-1dB comp)	+37
Input sat. Level dBm (1 carrier)	-10
Uplink Gain (1 dB step, software config)	35 to 84
Downlink Gain (1dB step, software conf)	35 to 84
In band ripple (dB)	±1 to ±3
ALC window(dB)	40 to 80
Uplink excitability (dBm)	-105 to -90
Downlink excitability (dBm)	-105 to -90
Noise factor (dB)	6 to 11
In / out impedance (w)	50
Return losses (dB)	-11 to -12
Group Delay (ms)	4 to 5
Power supply AC levels (Vac)	100 - 220 - 240
Power consumption (W)	40
RF connectors	N Female
MTBF	70000 Hours
Temperature range	-35°C to 55°C
Dimensions (mm) W x H x D (IP 55 Cover)	300x400x240

