

Features

- Dual band GSM/UMTS high power repeater
- Outdoor & indoor applications
- Full software control by local or remote terminal (Optional)
- High linearity & low noise amplifiers for maximal coverage
- High gain up to 90 dB
- Automatic Gain Control (AGC) with Automatic gain balance for UL&DL channels
- Oscillation detection
- Designed to transmit GSM/UMTS signals



UMTS 2100 specification

Parameter		Specifications
Frequency Range	Down	2110-2170 Mhz-TBD
	Up	1920-1980 Mhz-TBD
Output Composite Power <i>1FA-ACLR measured for 1925,2115 -3Gpp Test mode 1 64DPCH BW=3.84Mhz, offset +/-5Mhz -45dBC offset +/-10Mhz -50dBC</i>		DL +37 dBm UL +23 dBm
Gain DL/UL		90 dB ± 2 dB
Gain tuning range		30 dB - AGC , in 1dB step
Noise Figure		UL: <6 dB @ max gain , 25C
Out of band Gain rejection <i>from frequency corner</i>		0.4 - 1 Mhz - 60 dB 1 -10 Mhz - 45 dB
Pass band ripple		4dB p-p
Group delay		<4.5 µsec
VSWR		<1.5:1
Spurious		9Khz-1Ghz : ≤ -36dBm 1-12.75Ghz ≤ -30dBm

Optional Features:

M-Cellular GSM/UMTS Modem.

The remote control using a modem option Requires additional modem unit which is not Included in the basic model.

i-IP Network Management System.

Cellvine's Network Management System (NMS) allows multiple repeaters in a single network to be controlled from a central console, offering improved efficiency and Responsiveness from your enhanced coverage cellular network. The NMS can be installed as a full application on a specific workstation at the client's network operations center (NOC) or can be implemented as a fully IP-based Web Interface over the Internet.

GSM 900 Specification

Parameter		Specifications
Frequency Range	Down	935-960 Mhz-TBD
	Up	890-915 Mhz-TBD
Output Composite Power		DL + 37 dBm UL + 23 dBm
System Max Gain DL/UL		90 dB ± 2 dB
Gain tuning range		30 dB -AGC , in 1dB step
Noise Figure		UL: < 6 dB @ max gain , 25C
Out of band Gain rejection <i>from frequency corner</i>		±400 KHz < 50 dB ±600 KHz < 40 dB ±1 Mhz < 35 dB ±5 Mhz < 25dB
Pass band ripple		4 dB p-p
Group delay		<4.5 µsec
intermodulation		< - 13 dBm
VSWR		<1.5:1
Spurious		9Khz-1Ghz : ≤ -36dBm 1-12.75Ghz ≤ -30dBm

Electrical specifications

Repeater Control	Via Ethernet port and IP connection & optional GSM/UMTS modem. Link and available software is SNMP V.2 compatible.
<i>Software Control By RS232 interface or Optional Remote PC using a modem</i>	Available Readouts: Forward power , Channel Gain. Available Control functions : UL Gain, DL gain, AGC power, AGC function mode, Alarm setting, Function tests, Output power Alarms : Low TX power, Over power
Dimensions	400mmX500mmX200mm , Waterproof IP65 case
Temperature range	-20C to +50C , ambient
RF Connector	Base & Mobile - N female or 7/16