

Features

- Dual band medium power repeater
- Automatic gain control (AGC) for cellular base station signals (DL) to obtain maximal coverage
- Automatic level control (ALC) for mobile cellular base station signals, (UL) to obtain linear power
- Automatic gain balance for UL & DL channels
- Remote control and monitoring options-optional
- Oscillation detection and handling by gain reduction



UMTS specification

WCDMA power measuring: 30Khz RBW. Input

Parameter		Specifications
Frequency Range	Down	2110-2170Mhz
	Up	1920-1980Mhz
Filter band width	Full band	
Gain adjustment	40-70dB , in 1dB steps	
Noise Figure	8 dB ,@max gain , 25C	
AGC	Included, UMTS compliance	
Spurious	Less then -30dBm	
Output power*	12dBm (1FA)	
Group delay	Less then 6usec	
Pass band ripple	+/-2dB	

signal is 3GPP TS25.141 , test mode 1 , chip rate 3.84Mcps , 64DPCHs/Carrier @+/-5Mhz and +/-10Mhz offset in 30Khz BW .

Tuning and indications

LED indications	Power ALC GSM , ALC WCDMA
Manual Gain level GSM	Manual knob
Manual Gain level UMTS	Manual knob
AGC operation	on/off switches

GSM900 Specification

Parameter		Specifications
Frequency Range	Down	935-960Mhz
	Up	890-915Mhz
Filter band width	Full Band	
Gain adjustment range	40-70dB , in 1dB steps	
Noise Figure	8 dB ,@max gain , 25C	
AGC\ALC	Included	
OIP3	38dBm	
Output Power	16dBm	
Spurious	Less then -36dBm	
Out of band Spurious	Less then -36dBm	
Group delay	Less then 6usec	
Pass band ripple	+/-2dB	

Electrical specifications

Power supply voltage	65-260VAC
Power consumption	12W max
Weight	Less then 5Kg (TBD)
Dimensions	350mm X 200mm X 120mm(w) (TBD)

Environmental Specifications

Temperature range	-25 to +55C
Water proof	IP65

Additional options

1. Remote control, tuning and monitoring using cellular modem
2. Battery Backup