

Utfärdare/Issued by Kjell Knuutinen	Datum/Date 2000-12-27	Godkänd/Approved	Dok nr/Doc no AR4540/001-201	Rev B	Sida/Page 1
Dok namn/Doc name PRELIMINARY PRODUCT SPECIFICATION			Fil/file AR4540_001_B		

Specification of a CDMA 800 channel selective repeater 2-channel version, High Power Product Number: AR4540/001

1. Electrical specification (typical values)

The repeater complies with the requirements of FCC

Frequency band Reverse link	824 - 849	MHz
Frequency band Forward link	869 - 894	MHz
Number of channels	2	
Duplex spacing	45	MHz
Gain adjustment range (1 dB steps)	50-90	dB
Gain (max variation -25 to +55 °C)	4	dB
Absolute group delay	< 6	µs
Output power, RMS, one carrier Forward	+38	dBm
Output power RMS, two carrier Forward	+33	dBm/carrier
Output power, RMS, one carrier Reverse	+33	dBm
Output power RMS, two carrier Reverse	+28	dBm/carrier
Max out of band spurious emission	-13	dBm
Automatic gain control	Implemented	
Selectivity ±615 kHz	> -3	dB
Selectivity ±885 kHz	< -50	dB
Pass band ripple	3	dB
Noise figure at 85 dB gain, 25° C (typical)	5	dB
Maximum input power (non-destructive)	+13	dBm
Receiver input port return loss	14	dB
Antenna isolation supervision and regulation	MRX receiver required	
Antenna VSWR supervision	MRX receiver required	
Power supply voltage (default)	115	V AC
Power consumption, max	320	W

2. Environmental specification

Temperature range	-25 to + 55	°C
	-13 to +131	°F
Casing class	IP65	
MTBF	50000	Hours

3. Mechanical specification

Dimensions. (W x H x D)	17.4 x 20.9 x 9.5	Inches
	440 x 530 x 240	mm
Mechanical outline	See Standard Low	
Weight	54	lbs
	25	Kg
RF connectors	N-type female	