

Utfärdare/Issued by Kjell Knuutinen	Datum/Date 2000-01-31	Godkänd/Approved	Dok nr/Doc no AR3530/901-201	Rev A	Sida/Page 1
Dok namn/Doc name PRELIMINARY PRODUCT SPECIFICATION			Fil/file AR3530_901_A		

Specification of a CDMA 1900 channel selective repeater 2-channel version, Upper band High Power

1. Electrical specification

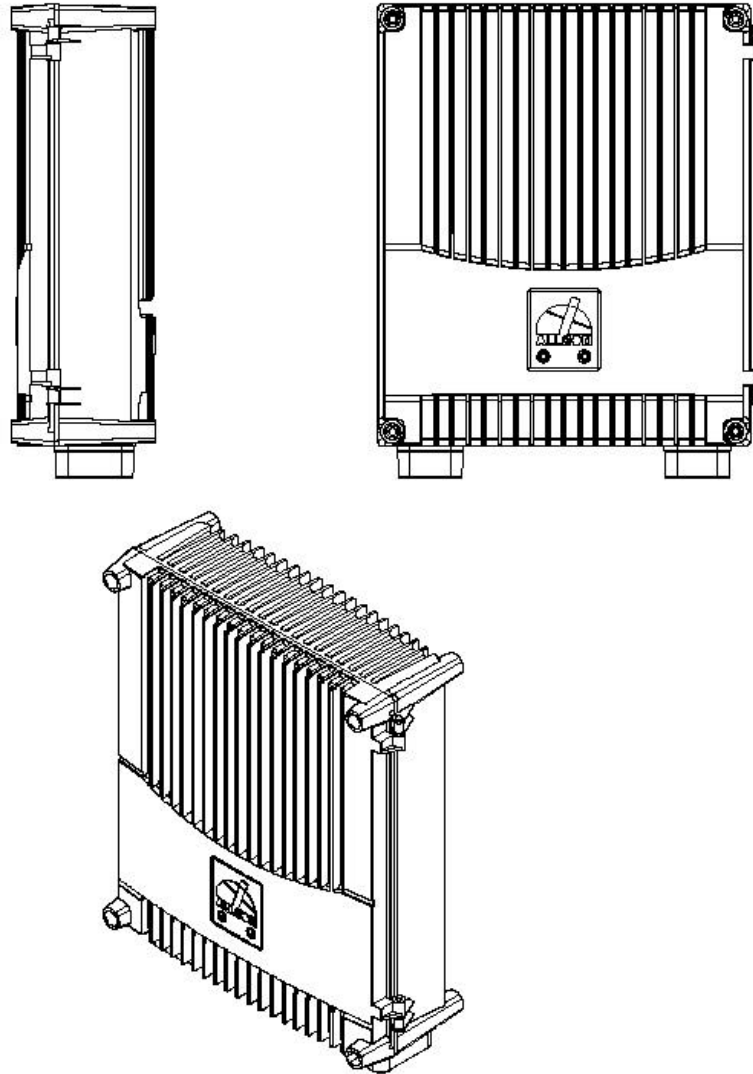
Frequency band Reverse link	1870 –1910	MHz
Frequency band Forward link	1950 - 1990	MHz
Number of channels	2	
Duplex spacing	80	MHz
Gain adjustment range (1 dB steps)	50-90	dB
Absolute group delay	< 5	µs
Output power, RMS, one carrier Forward	typical +39	dBm
Output power RMS, two carrier Forward	typical +34	dBm/carrier
Output power, RMS, one carrier Reverse	typical +33	dBm
Output power RMS, two carrier Reverse	typical +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
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
RF-connectors	N-type female	
Power supply voltage	115	V AC
Power consumption, typ. (max)	130 (200)	W

2. Environmental specification

Temperature range	-25 to + 55 ¹	°C
	-13 to + 131	F
Casing class	NEMA4/IP65	
MTBF	50000	Hours

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2. Mechanical specification



Dimensions. (W x H x D)	174 x 209 x 95	Inches
	440 x 530 x 240	mm
Weight	54	lbs
	25	Kg
RF connectors	N-type female	
Lock type	ABLOY	

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3. Operation

Set-up and control of the repeater via an OMT (Operation & Maintenance Terminal) software

- Standard computer locally connected via RS232
- Standard computer remotely connected via modem (optional RCU-kit in the repeater is then required)

4. Hardware & Software requirements

The enclosed OMT software package requires at least:

- 386 desktop or notebook
- 8 MB of RAM (16 is recommended)
- 4 MB free hard disk space
- Windows 95, 98, NT version 4.0 or higher

5. Alarms

Internal and external alarms locally or remotely monitored

- LED sum alarm presentation on repeater front
- Large number of internal alarms test points, each having a fixed alarm level
- Four alarm ports for external alarm connections (e.g. intruder, fire, temperature etc), each having flexible alarm level settings

Settable alarm levels:

- None and ceasing
- Warning
- Error
- Critical

6. Options and facilities

- R2R (Repeater to Repeater) multidrop link is an advanced feature enabling data communication between repeaters over one single remote interface (RCU)
- MRX (Measuring receiver) for antenna isolation measurement and supervision
- 230 VAC
- 24-48 DCV power supply (available Q2-2000)
- Fibre optic kit
- 7/16 connector kit
- Remote Control Unit (RCU) for wire-line or wireless connection
- Battery Back-Up (BBU) for either 25 or 50 Ah battery capacity
- Door-switch to be connected to external alarm input
- Operation and Maintenance System (OMS)

A Windows NT based system for managing multiple repeaters in a network

- Single or Multiuser as options
- Polling of repeater
- Status interrogation
- Remote configuration
- Supervision of ongoing configurations of multiple repeaters
- Automatic downloading of new software
- Scheduling activities
- Report generating
- External connections over the most common IP protocols (TCP/IP, UDP, Streamsocket)

ALLGON SYSTEM AB



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8. Declaration of conformity

Safety

- UL recognition according to UL 1950 3:rd Edition: In progress
- cUL recognition according to CAN/CSA C22.2 950-95: In progress

Radio transmission and reception

- FCC certification No: L6GAR3500
- IC certification No: 2869331135A

¹ Max output power is limited to +40 C° ambient temperature