

Utfärdare/Issued by	Datum/Date	Godkänd/Approved	Dok nr/Doc no	Rev	Sida/Page
Kjell Knuutinen	2000-02-01		ALR3200/001-201	B	
Dok namn/Doc name			Fil/file		
PRELIMINARY PRODUCT SPECIFICATION			ALR3200-001_B2		

COMPACT repeater with adjustable bandwidth 1900 MHz version, Low band

1. Electrical specification

			Remark
Frequency tuning band Up link	1850 – 1890	MHz	
Frequency tuning band Down link	1930 – 1970	MHz	
Filter bandwidth, software adjustable	0.2 – 15	MHz	
Filter setting resolution	12.5	kHz	
Duplex spacing	80	MHz	
Gain adjustment range	45-70	dB	
Gain step resolution	1	dB	
Out of band gain @ 400 KHz off-set	45	dB	
Out of band gain @ 600 KHz off-set	40	dB	
Out of band gain @ 1 MHz off-set	35	dB	
Out of band gain @ 5 MHz off-set	25	dB	
Output power, PEP	Min + 28	dBm	
3 rd order intercept point	+ 49	dBm	
Max absolute group delay	6	µs	
Noise figure at 70 dB gain, 25° C	5	dB	
Maximum input power	+13	dBm	
Receiver input port return loss	14	dB	
RF-connectors	N-type female		
Power supply voltage	85 - 265	VAC	
Power consumption	< 70	W	

Output power reference table (dBm)

No Carrier	CDMA	TDMA	GSM
1	+25	+28	+28
2	+20	+23	+23
4	+16	+19	+19

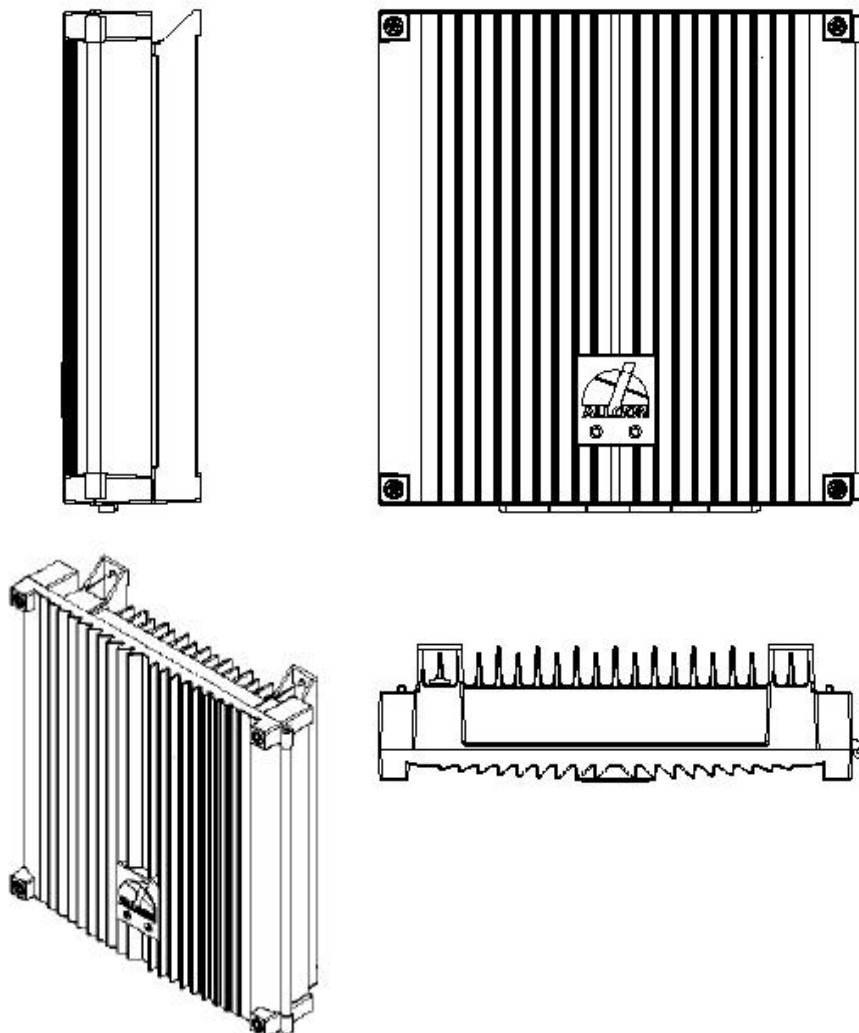
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2. Environmental specification

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

3. Mechanical specification

Dimensions. (W x H x D)	15.2 x 15.2 x 4.3	Inches
Dimensions. (W x H x D)	385 x 385 x 110	mm
Weight	< 22	lbs
Weight	< 10	kg
Lock type	Allgon Safety bolts	



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4. Options and facilities

- Fibre Optic Unit (FOU)
- Remote Communication Control (RCC)
- Battery Back-Up (BBU) with either 25 or 50 Ah battery capacity
- Operation and Maintenance System (OMS)
- Dual band
- Repeater to Repeater (R2R) multi drop link for data communication between all type of Allgon repeaters
- Compatible with OMT and OMS software

5. Operation

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

- PC connected via RS232
- PC connected via modem (optional RCC-kit is required)

7. Software requirements

The OMT software package requires at least:

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

10. Declaration of conformity (in progress)

- Environmental specification
- Radio Transmission and Reception
- EMC emission and immunity
- EMC immunity
- Electrical safety
- UL
- UL
- FCC

ETS300 019-2-4
 ETS300 609-4
 ETS300 342-3
 IEC 801-2,4 and 5
 IEC publication 65
 1950 third Edition
 CAN/CSA-C22.2 No 950-M95
 24E