

AT RF1325 25 Watts VHF Duplex Transceiver Package

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The mobile package with power output up to 25 W (50 W) is designed to be built in all types of caterpillar and wheel vehicles. The radio modem built in AT ZM13.1 (ZV13.1) amplifier in direct line software version features full duplex data transmission. The modem is compatible with MD13.1 and MD13.2.

Technical parameters

Frequency range	30.000 MHz to 87.975 MHz
Input impedance	50 Ω
Output impedance	50 Ω
Channel spacing	25 kHz
Number of channels	2320
Channel selection	from transceiver keyboard or handset
Operating modes	simplex or semiduplex telephony or data transmission 16 kbit/s duplex data transmission with 16 kbit/s baud rate
Voice encryption	through internal digital scrambler
RF power output controllable in three steps	0.2 W decreased, 5 W nominal, 25 W(50 W) increased
Receiver sensitivity	better than 0.5 μ V at 12 dB SINAD
Modulation	FM, max. deviation 5.6 kHz
Effectively transmitted frequencies range	
for F3 operation	300 Hz to 3400 Hz
for data	150 Hz to 9000 Hz
Interface for connection of PC	RS232C
Data transmission rate in radio channel	max. 16 kbit/s

Data transmission modulation GMSK	bit rate 16 kbit/s
Modulation signal level for 4 kHz deviation	
in F3 mode	100 mV
in DATA mode	430 mV ± 50 mV
AF amplifier output power	1 W in loudspeaker with impedance 6 Ω
AF frequency range	300 Hz to 3 000 Hz in 6 dB range
Nominal power supply voltage	
RF1325	12 V or 27 V
RF1350	27 V
Power supply voltage range	
RF1325	10 V to 33 V
RF1350	18 V to 33 V
Current consumption	
reception	max. 0.5 A
transmission 5 W	max. 1.3 A
transmission 25 W	max. 10 A at 12 V
	max. 5 A at 27 V
transmission 50 W	max. 8 A
Continuous operation time in +50 °C	
25 W	min. 2 hours
50 W	min. 30 min
Operating temperature	-30 °C to + 60 °C
Set dimensions including the frame	W 428 mm x H 270 mm x D 290 mm
Set weight including frame	max. 18.5 kg

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Components

- Duplex VHF transceiver AT RF13D
- Power amplifier 25 W (P2P) AT ZM13.1
- Co-site filter AF13
- Co-site filter AF13.1
- Frame
- Frame
- Frame
- AF cable
- AF cable
- AF cable
- RF cable

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