

AT AR13.1 VHF Automatic Rebroadcast Station

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The AT AR13.1 automatic rebroadcasting station with 25 Watt power amplifier, in stationary or mobile assemblies, is designed to automatically rebroadcast signals, increasing operating range of AT RF13 and AT RF1301 transceiver radio networks in the entire frequency range and in all operating modes, with AT RF2 and AT RF2050 transceivers on fixed frequency in 30.000 MHz to 87.975 MHz frequency range. The AR13 repeater stations includes ZM13.1 (25 W) or ZV13.1 (50 W) power amplifier. The AT AR13.1 station uses AT ZM13.1 25 Watt power amplifier.

Technical parameters

Automatic signal rebroadcasting	
• Voice operation with 150 Hz pilot frequency, including encrypted voice communication.	
• Short coded messages (FLASH).	
• Data in MD13.1 radio modem format.	
• Phone dialing.	
Repeater activation modes	
• Permanently active.	
• Activation command.	
• Activation command issued by authorized users (present in the list of end stations stored in the repeater).	
Frequency range	30.000 MHz to 87.975 MHz
Input and output impedance	50 Ω
Nominal output of the transmitter	25 W
Minimum frequency separation between receiving and transmitting frequencies	10 %
Direct supply voltage	10 V to 33 V

Current consumption at 12 V supply voltage	max. 10 A
Current consumption at 27 V supply voltage	max. 5 A
Operating temperatures	-20 °C to +50 °C
Dimensions	W 490 mm x H 430 mm x D 335 mm
Weight	33 kg

Components

- Transceiver AT RF13
- Power amplifier 25 W (Net) ATZM13.1
- Co-site filter ATAF13
- Co-site filter ATAF13
- Rebroadcast unit AT RJ13
- Frame (7007.100.60)
- Frame (7007.100.50)
- Frame (7007.100.50)
- Connector (1050.628.01)
- Connector (1050.628.03)
- AF cable (1050.601.07)
- AF cable (1050.601.08)
- AF cable (1050.615.01)
- AF cable (1050.615.02)
- AF cable (1050.616.01)
- AF cable (1050.617.01)
- AF cable (1050.617.02)
- RF cable (1050.401.02)
- RF cable (1050.401.03)
- RF cable (1050.401.04)
- Grounding (1050.993.01)
- Grounding (1050.993.01)
- Grounding (1050.993.05)
- Grounding (1050.993.05)
- Grounding (1050.993.12)
- Grounding (1050.993.16)
- Connector nut (2000.475.01)
- Connector nut (2000.475.01)

Optional accessories

- Power supply set SZ13.1
- Vehicle whip antenna MO13.50 –
- Vehicle whip antenna with magnetic holder MO13.51
- Vehicle antenna VHF 2.6 m
- Groundplane antenna
- Discon antenna
- Telescopic mast 9 m
- Telescopic winch driven mast 10 m
- Power supply cable 1.5 m
- Antenna cable (3 m)
- Antenna cable (10 m)
- Handset RF13.3

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