

# DICOM® AR20

## Automatic rebroadcast station

- Significantly increased range (beyond-line-of-sight)
- Reliable communication in rugged terrain
- Ability to cover a large territory



**MESIT**  
defence





AR20 automatic rebroadcast station is a device allowing automatic rebroadcasting of operations at fixed transceiver frequencies meeting the requirements of STANAG 4204 and of transceivers communicating in frequency hopping mode using HW20 waveform, i.e. RF20, RF2050, RF23, RF2350 transceivers.

AR20 is a compact assembly of two 50 W RF2050 radios and the RU20 intelligent control unit in a frame.

Technical parameters:

Frequency range		(25 - 146) MHz
Input and output impedance		50 Ω
Transmitter power:	Nominal	50 W
	Reduced	5 W
Modulation		FM, AM
Channel spacing		(25, 12.5, 6.25) kHz
Antennas spacing:	>1.5 m	(30 - 90) MHz
	>30 m	other frequencies
Minimum separation between receiving and transmitting frequency		10 %
Current consumption during transmission		max. 25 A at 12 V
		max. 12 A at 24 V
Current consumption during reception		max. 2.8 A at 12 V
		max. 1.4 A at 24 V
Power compatibility		MIL-STD-1275B
Operating temperature range		-40 °C to +70 °C
Dimensions		430 x 285 x 225 mm [w x h x d]
Weight		max. 30 kg
Climatic resistance		MIL-STD-810E
EMC		MIL-STD-461E

- Simplex or semi-duplex operation
- Voice and data rebroadcasting at fixed frequencies (STANAG 4204) and in hopping networks
- TRANSEC/COMSEC support
- Unattended operation (automatic operation)
- Quick installation and putting into operation
- Minimum interference even with closely positioned antennas
- Interface for a third radio - chaining option
- Durable, rugged design according to MIL-STD-810E requirements
- Automatic synchronization
- Transfer of services - FLASH, ALERT, authorization, text messages and BREAK IN

