



# MESIT



## DICOM® AR20

# Automatic rebroadcast station

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





- 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

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                   |                   |



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MESIT asd, s.r.o.  
Sokolovská 573, Mařatice  
686 01 Uherské Hradiště  
Czech Republic  
asd@mesit.cz  
T +420 572 522 200

Sales Department  
defence@mesit.cz  
T +420 572 522 603  
F +420 572 522 806  
www.mesit.cz

ID: 60709235  
VAT No: CZ60709235  
Brno Commercial register - C 15427  
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