RU20 - Rebroadcast unit

Type designation: **RU20**

PN (RN): **2315.110.01**

The rebroadcast unit is part of the AR20 automatic rebroadcast station that mutually links all transceivers in the automatic rebroadcast station with appropriate audio frequency and data cables. The RU20 is equipped with three signaling LEDs that inform AR20 operators of the current station settings and/or of AR20 error statuses. The RU20 and the entire rebroadcast station are controlled with a single button. The button activates individual AR20 operating modes. By default, the unit is connected with two transceivers that rebroadcast signals, and an optional third transceiver – a client transceiver for another rebroadcast station. The RU20 provides an Ethernet interface for firmware upgrades. Link through this interface is signaled by the corresponding LED.

Operating features

• Automatic rebroadcasting of voice communication on fixed-frequency simplex or semi-duplex channel or frequency-hopping channel.
• Automatic rebroadcasting of data communication on simplex or semi-duplex channel fixed frequency or frequency-hopping channel according to MIL–STD–188–220 standard.
• Automatic rebroadcasting of P2P data communication on simplex or semi-duplex frequency-hopping channel.
• Automatic rebroadcasting of voice communication on fixed-frequency simplex or semi-duplex channel with active encryption unit.
• Automatic rebroadcasting of short coded FLASH messages on fixed-frequency simplex or semi-duplex channel.
• Automatic rebroadcasting of services on simplex or semi-duplex frequency-hopping channel, such as transmission of short text messages, ALERT, authentication, and BREAK IN.
• Automatic synchronization of all terminal transceivers from the AR20 rebroadcast station.
• Quick switching to directional communication between the transceiver connected to AR20 and terminal transceivers without rebroadcasting to another network.
• Optional connecting of a third transceiver - a terminal transceiver of another rebroadcast station, while compatibility of all fixed-frequency and frequency-hopping operation modes is ensured.

Technical parameters

Number of connectable rebroadcasting transceivers	2

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Number of connectable client transceivers of another AR20	1
Upgrading interface	LAN
Nominal supply voltage	9 V from transceiver
Weight	up to 1 kg
Dimensions	184 mm x 45 mm x 145 mm