## RR 4702 - High Capacity LOS Radio Relay

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## Main features:

- HCLOS PTP radio relay with transmission capacity up to 320 Mbps
- Harmonized frequency band 4,4 5 GHz (NATO IV)
- ✓ High output power and long distance up to 90 km
- ✓ Channel bandwith 7 MHz ÷ 56 Mhz
- ✓ Modulation QPSK ÷ 256 QAM
- ✓ Gigabit ethernet and E1

RR4702 High Capacity Line of Sight (HCLOS) Point to Point (PTP) radio relay based on software configuration



core for building of higher organizational levels in mobile tactical networks in NATO IV frequency band. Time continuous full duplex transmission capacity up to 320 Mbps is ensured by Frequency Division Duplex (FDD). Ethernet 10/100/1000 BASE-T and E1 (2048 kbps) are standard interfaces. Local control is over PC and IP management is over webserver or SNMP.



**Indoor Unit** 



Outdoor unit

RR4702 is very universal due to wide range of easy software setup parameters (channel bandwith 7 MHz ÷ 56 MHz and modulation QPSK ÷ 256 QAM). It can be configured to high capacity data transport in backbone net (12 - 15 km) as well as to long distance connection (60-90km) with high robustness and lower data rate. Robustness algorithms APC, ACM and FEC are included. Radio meets strict conditions for EMC and mechanical ruggedness – it is designed for extreme climatic conditions.

## Technical specifications

General

Frequency range 4400 ÷ 5000 MHz

Duplex spacing 312 MHz

Modulation QPSK to 256 QAM or ACM (promptly SW setup)
Channel separation 7, 14, 28, 40, 56 MHz (promptly SW setup)

Max. aggregate transmission rate cca 320 Mbps (full duplex)

Forward error correction LDPC

1x ETH 10/100/1000 Base-T up to 320Mbps (IEEE 802.3u, 802.3x, 802.3ac)

1x E1, G.703 2,048 Mbps (optionally more ports)

**Transmitter** 

Output power 33 dBm (QPSK), 28 dBm (256 QAM)

AT Communications arol (ATPC or manual)

Manual control step
Intermediate frequency

40 dB
1 dB
350 MHz

Receiver

Receiver threshold (10e-3 BER) -85 dBm (QPSK), -67 dBm (256 QAM)

Max. level of input signal 0 dBm Intermediate frequency 140 MHz

Management

Local management PC (USB) – PC application

IP management 2x 10/100 Base-T (separate channel) - SNMP v.2/3, HTTP

EOW 32 kbps (servis full duplex call)

Power supply, Dimensions, Weight, Environmental conditions

Power supply 18 - 30 V Consumption < 60W

Dimensions (W x H x D)

Indoor Unit (IDU)

288 x 128 x 303 mm

Outdoor Unit (ODU)

224 x 135 x 310 mm

Weight < 8 kg < 7 kg

Operating temperature range -33°C to +50°C -33°C to +50°C Humidity 100 % (waterproof) 100 % (waterproof)

**Accessories** 

Antenna FPA 26 dBi, 6° H or V turn 90°, 600x600x24mm, 5 kg, green or tan

Fixture of antenna and ODU diameter 40 mm, elevation +-25°

Hand-microtelephone with PTT

IDU-ODU cable 100 m (optionally other length up to 300m)

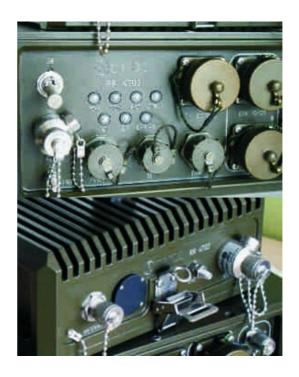
ODU-Antenna cable 1.2 m

Power cable 2,5 m (optionally other length)

USB cable 1,8 m

Microtelephone extension cable 40 m (optionally other length)





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