



microwapp™ 1070

10.3 GHz full-duplex fast Ethernet radio link, 34 Mbps

This digital microwave radio offers users to configure and monitor system operation via RS232, via Internet by IP, or, via SNMP or MIB protocols.

Microwapp 1070 is a digital microwave link for data transmission in the 10.3 GHz band. It is designed to interconnect computer networks with maximum transmission capacity of 34 Mbps in full-duplex mode. The transmission range is up to 30 km, based on the antenna type. Retransmission can be added to microwapp 1070 in the case that direct visibility between the transmitter and receiver cannot be guaranteed or in the case we need to extend the transmission range. Then the total range is equal to the sum of the transmission ranges of the individual links. Microwapp 1070 is supplied with 350 mm up to 1200 mm diameter parabolic dish antennas including radome covers.

System configuration and diagnostics (management):

- 1) GUI software MCM Vision over RS 232
- 2) telnet over IP
- 3) SNMP protocol, MIB

Microwapp 1070 set is comprised of: 2 compact antenna units with adjustable 650 mm parabolic antennas, 1x IP module for remote management of all link's points. The microwave links are set to default operating parameters and they are supplied burnt-in. The link does not require any further configuration or management after antenna direction alignment.

Application: LAN and WAN computer networks, backbone networks, Internet connections, etc.

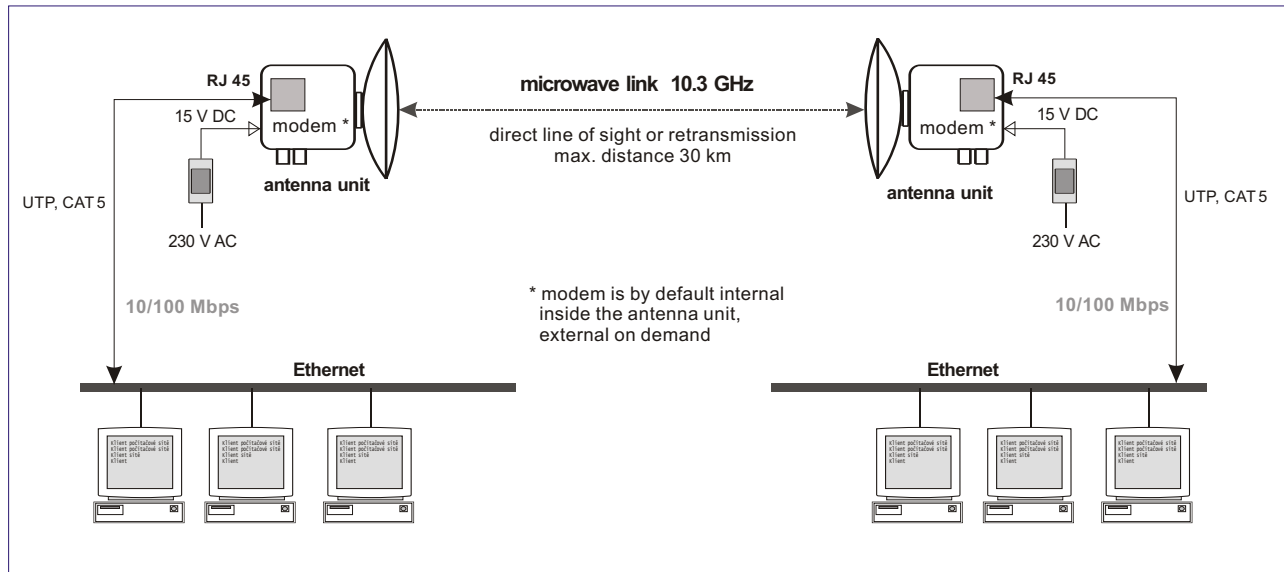
technical specifications

Frequency Range:	10.3 10.6 GHz (no license in EU)	
Transmission Capacity :	34 Mbit/s data rate	
Transmitter Power:	2 mW, (+3 dBm)	(under no-license agreement), up to 10 mW. Elsewhere, frequency stability better than 50 ppm
Usable Channels:	2 (full duplex operation)	
Modulation:	4FSK, channel bandwidth 14 MHz	
Polarization :	H and V (TX/RX)	
Transmission range:	350 mm parabolic antenna	2 km (10 dB fading margin , BER 10 E-6)
	650 mm parabolic antenna	7 km (15 dB fading margin, BER 10 E-6)
	900 mm parabolic antenna	15 km (20 dB fading margin, BER 10E-6)
	1200 mm parabolic antenna	30 km (20 dB fading margin, BER 10E-6)
Input Sensitivity:	-81 dBm for BER 10E-3	
	-80dBm for BER 10E-6	
	-78dBm for BER 10E-9	
Interface:	Fast Ethernet,	10 BASET, 100 BASE-TX, 100 BASE-FX,
		RJ-45 connector, 10/100 auto-detect, half/full, mdix (auto cable identification)
AC Power:	230 V, 50 Hz, 25 W	power consumption 25 W (DC, 15 V)
Operation Temperature:	-20 to +50 deg.C	
Unit Size:	650 x 650 x 640 mm (with antenna)	weight: 13.4 kg

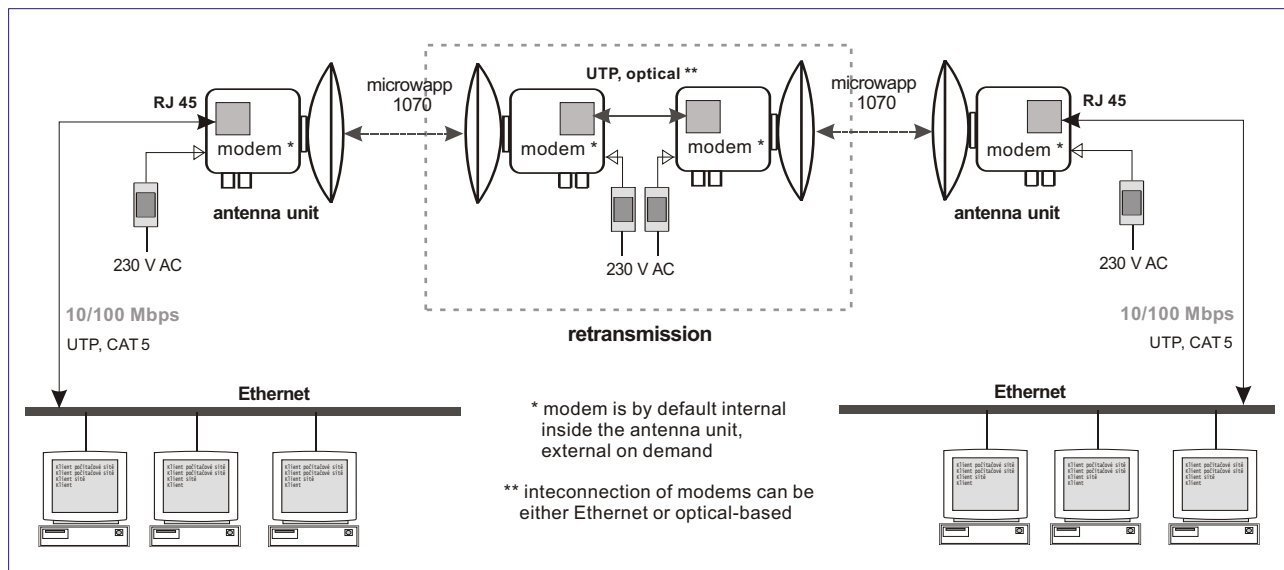
Figures show installation modes, direct and with a retranslation.

microwave link diagram

microwapp 1070



microwave link and retransmission diagram



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