



microwapp™ 1021

10.3 GHz Simplex multi-channel CCTV, Microwave radio link

Microwapp 1021 is a simplex multi-channel microwave link suitable for closed-circuit TV systems. It is designed to transmit A/V signals up to a max. distance of 15 km in the direct line of sight. Up to 4 independent A/V signals can be transmitted via a single microwave link. The basic parameters of the supplied demodulator can be set up by IR programmer. Additional options for microwapp 1021: the audio module, the TAMPER module to transmit information about sabotage. 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 and eventually combine more signals from different directions, retransmission microwapp 1027 can be added to the microwave link.

Microwapp 1021 is supplied with 350 mm diameter parabolic dish antennas including radome covers. To achieve longer transmission ranges, it is possible to order microwave links with 650 - 1200 mm parabolic dish antennas.

The microwapp 1021-1 set is comprised of the transmitting antenna unit, the receiving antenna unit (both with adjustable 350 mm parabolic antennas), video modulator with power supply inside a separate case, US 511 demodulator incl. a power supply in a MS 011 rack. The microwave links are set to default operating parameters by the manufacturer and they are supplied burnt-in. The microwapp technology is certified to be used within the EU.

Application: urban camera systems or generally A/V signals transmission (CCTV). We also offer microwapp 1021 K that transmits video as well as audio signals in TV studio quality and therefore is suitable to interconnect a TV studio and a transmitter or is suitable for various cable TV applications.

technical specifications

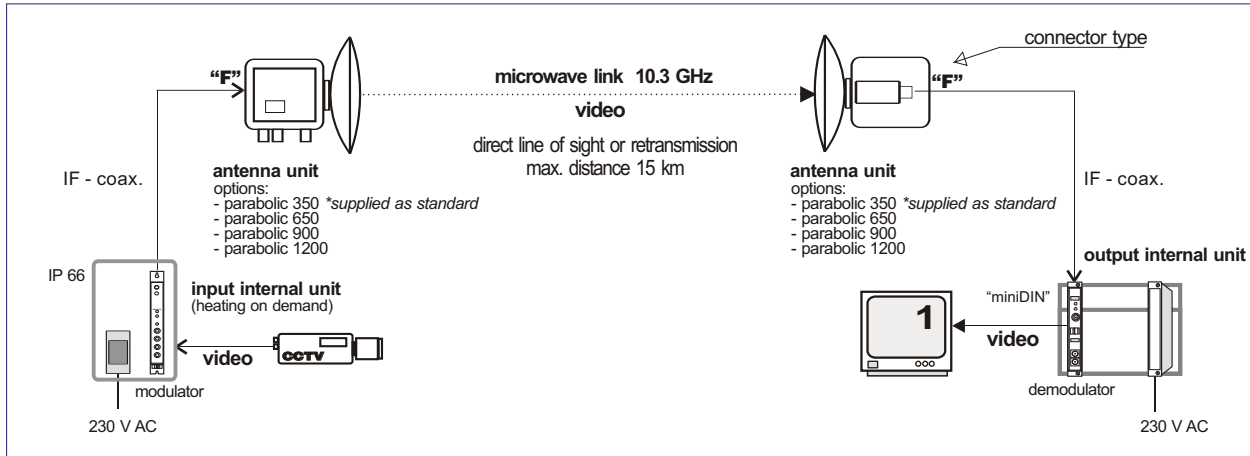
Frequency Range:	10.3 - 10.6 GHz	(no license in EU)
Channels :	1 to 4	factory installed
Video :	1 V pp/75 Ohms, PAL, 625 lines	
Audio:	0.755 Vef	mono (stereo as an option)
Tamper:	NC logic (optional)	
Modulation :	FM, 14 MHz deviation, 28 MHz bandwidth	* optional
Transmitter Power:	2 mW (+3 dBm)	(under no-license agreement)
Frequency Stability:	better than 50 ppm	
Polarization:	H or V	
Operation Temperature: -	25 to +50 de.C outdoor unit	0 to +40 deg.C indoor
Radio Range (one channel):	350 mm parabolic antenna	2.5 km (1.5 km for 2 ch).
	650 mm parabolic antenna	8 km (5 km for 2 ch)
	900 mm parabolic antenna	12 km (8 km for 2 ch)
	1200 mm parabolic antenna	15 km (10 km for 2 ch)
	30 mm dia. Dielectric rod antenna	300 m
AC Power:	230 V, 50 Hz, 35 W	
DC Power:	TX unit, 12-18 V, 900 mA, RX, 110 mA	
dimensions (antenna units)	transmitting: 380x380x330 mm, weight: 5 kg	receiving: 380x380x330 mm, weight: 3 kg or option-based
dimensions (internal units)	transmitting: case 510x410x250 mm	receiving: demodulator 260x32x115 mm, power supply 260x60x115 mm

Figures show alternative uses for a simple video link or one with a retranslation

1-channel microwave link block diagram

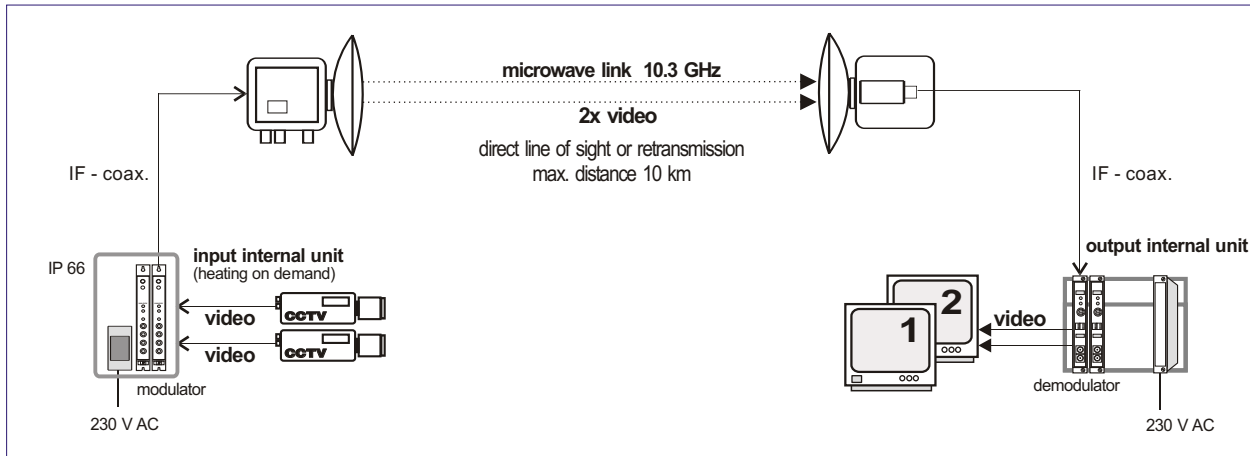
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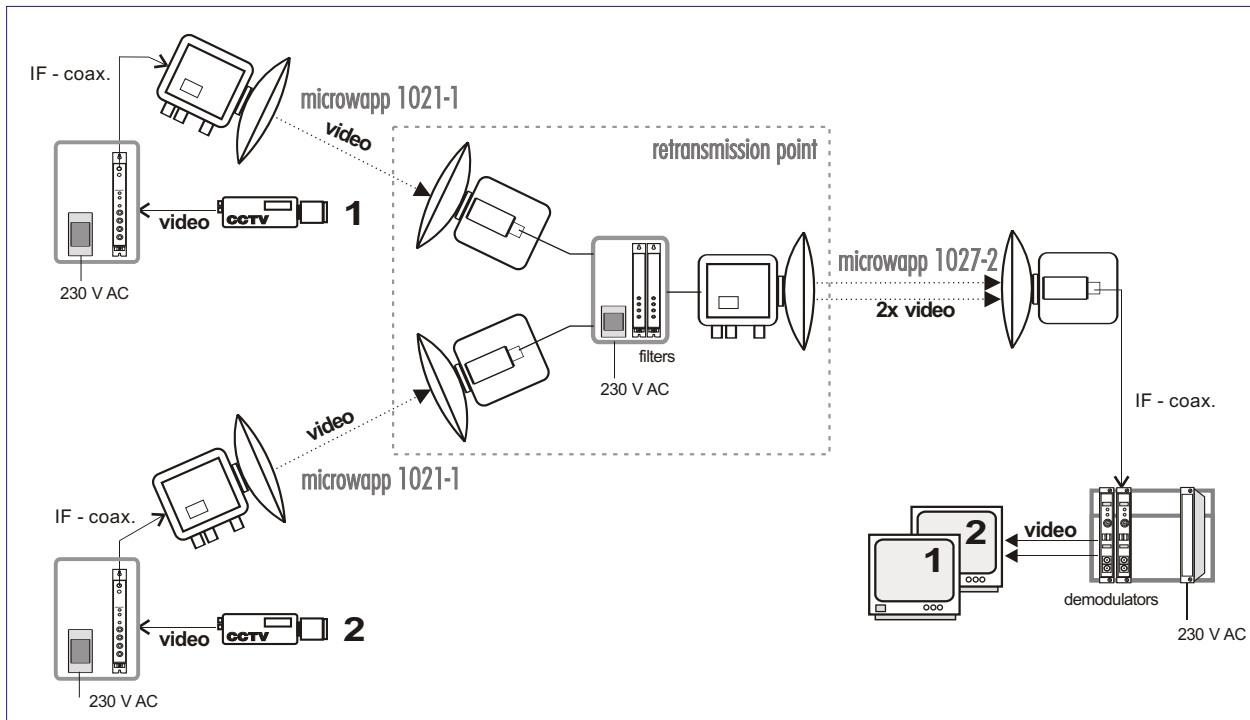
2-channel microwave link block diagram

microwapp 1021-2



retransmission block diagram, star topology

microwapp 1027-2



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