

SkySweep Technologies

Dedicated Solutions for High Speed
HF/VHF/UHF DIGITAL RADIO

SkyIPR-20 VHF/UHF IP Data Radio



SkySweep Technologies provides dedicated secure IP data radio systems (up to 1Mbit/s) for VHF/UHF bands.

Customer own applications can also be installed on the SkyIPR-20 which is based on the Windows embedded operating system.

The device is based on the latest radio technology.

The system based on latest embedded technologies provides the ideal communication solution for a wide range of critical applications,

- IP transmissions to Base Station sites etc.
- SCADA systems
- Public Safety communication
- Bank Systems
- Military
- Retail

See features on back page >

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SkySweep IP Data Radio SkyIPR-20

The state-of-the-art new generation radio technology up to 915.8 kbit/s gross bit rate



SkySweep IP Data Radio

for channel bandwidth 12.5, 25, 50, 100, 150 kHz

Features

Frequency bands VHF & UHF	VHF 68-88 (to come), 136-174 MHz; UHF 378-470 MHz
Maximum Transmission Power	20 Watt (adjustable down to 100 mW)
Modulation	SkyOFDM
Embedded platform	Windows Embedded
Transmission method	Half Duplex
Channel bandwidth supported	12.5, 25, 50, 100, 150 kHz
Forward Error Correction FEC	Turbo Coding
SkyOFDM: 12.5 kHz (256 QAM)	60.2 kbit/s (Max. gross bit rate)
SkyOFDM: 25 kHz (256 QAM)	139.1 kbit/s (Max. gross bit rate)
SkyOFDM: 50 kHz (256 QAM)	289.8 kbit/s (Max. gross bit rate)
SkyOFDM: 100 kHz (256 QAM)	602.8 kbit/s (Max. gross bit rate)
SkyOFDM: 150 kHz (256 QAM)	915.8 kbit/s (Max. gross bit rate)
Data interfaces	2 x 10/100 Mbit/s Ethernet 1 x COM RS 232 (422, 485) 300 bit/s up to 115 kbit/s 1 x USB 3.0; 2 x USB 2.0 1 x HDMI / 1 x VGA 1 x WLAN with 2 x diversity antennas
Operating modes	P2P (Point to Point) P2M (Point to Multipoint) M2M (Multipoint to Multipoint)
Communication modes	TCP/IP UDP/IP
Other features	Repeater (store and forward) IP Router IP Bridge Data compression
Antenna-connector type	SMA-female
Power	+12, +24 V DC

Note: SkySweep data radio specifications might be subject to change due to product innovation and improvements without prior notice.