

# SkySweep Technologies

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

# SkyIPR-20

## VHF/UHF IP Data Radio 19" 2U



SkySweep Technologies specializes in providing customers very cost efficient dedicated secure IP data radio systems for the realization of extremely powerful wireless VHF/UHF IP data (up to 1 Mbit/s) radio networks.

For the HF/VHF/UHF frequency bands SkySweep Technologies can provide systems for the demanding data communication tasks.

The SkyIPR VHF/UHF IP data radio system is based on international standards. Additionally the system provides secure and encrypted (AES) transmission.

The utilization of existing frequencies and infrastructure on the VHF or UHF band reduces the investments to an absolute minimum.

Customer own applications can also be installed on the SkyIPR VHF/UHF IP data radio system which is a Windows embedded device.

The SkySweep SKIPR VHF/UHF IP data radio system provides superior bandwidths and higher throughput times previously only known by wired systems.

New transmission methods makes duplex communication possible on a single simplex frequency.

The system provides the ideal communication solution for a wide range of critical applications,

- Telecontrol transmission
- Alarm systems
- Telemetry
- Wireless meter readout
- Smart Metering
- Smart Grid
- Energy supply management

Optional available:

Vehicle tracking

GPS-based SkySweep tracking application  
(includes USB GPS-RX)

Several SkySweep IP Data Radios installed in a rack extend the capacities of the network. Bandwidth and data rates increases.



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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 19" 2U for channel bandwidth 12.5, 25, 50, 100 or 150 kHz

### Features

Frequency bands VHF & UHF	VHF 136-174 MHz & UHF 378-470 MHz (other frequency bands by request)
Output power SkyIPR-BS	adjustable, max. 20 Watt
Input sensitivity	
Modulation	OFDM
Transmission Method	Time Division Duplex (TDD)
SkyIPR-BW Channel bandwidth supported	12.5, 25, 50, 100, 150 kHz
Forward Error Correction FEC	Turbo Coding
Max. transmission rate @12.5 kHz (256 QAM)	60.2 kbit/s (Max. gross bit rate)
Max. transmission rate @25 kHz (256 QAM)	139.1 kbit/s (Max. gross bit rate)
Max. transmission rate @50 kHz (256 QAM)	289.8 kbit/s (Max. gross bit rate)
Max. transmission rate @100 kHz (256 QAM)	602.8 kbit/s (Max. gross bit rate)
Max. transmission rate @150 kHz (256 QAM)	915.8 kbit/s (Max. gross bit rate)
Data interfaces	2 x 10/100 Mbit/s Ethernet 1 x RS 232 (422, 485) 300 bit/s up to 115kbit/s 4 x USB 2.0 1x HDMI / 1 x VGA
Latency time	
Standards and declarations	Radio: 12.5 & 25 kHz: EN 300 113; 50,100 & 150 kHz: ETSI EN 302 561 EMC: EN 301 489-5 Safety: EN 60950 Environmental: ETS 300 019, Sub-part 3: "Stationary use at weatherprotected locations"; Sub-part 5: "Ground vehicle installations";
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
Mounting method	19" Cabinet or Rackmount
Sizes	
Power / Power consumption	+12 V DC (integrated power supply)

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