

When independent secure and highly available data communication is indispensable!

The SkySweep IP over radio system is a state-of-the-art OFDM modem based solution for highspeed VHF/UHF IP data communication using new generation radio technology.

The SkySweep Data Radio system is scalable from small to big VHF/UHF IP networks consisting of many mobile stations, RTU's etc.

Why you should decide on a SkySweep Data Radio solution?

Two reasons of many:

Take data load away from voice systems!

Most PMR radio systems are optimized for voice but typically don't have much extra capacity reserved for data. This means that, when the amount of data in the net increases, the quality of voice service decreases.

The SkyIPR VHF/UHF IP data radio system is based on international standards. Additional 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 which is based on Windows embedded.

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

Based on new transmission methods it is possible to realize on a single simplex frequency and duplex communication.

SkySweep Technologies

located in Espoo, Finland is a rapidly growing company delivering high speed and high quality HF/VHF/UHF data solutions to the most demanding customers world wide. The company relies on its strong and experienced R&D. All the core members of the R&D teams have more than 10 years of experience in the telecommunication business.

SkySweep Technologies

SkySweep Technologies specializes in providing customers very cost efficient systems for the realisation of extremely powerful wireless VHF/UHF IP data radio networks.

On HF/VHF/UHF bands SkySweep Technologies can provide system solutions for diverse demanding data communication tasks.

Contact:

SkySweep Technologies Oy
Linnoitustie 4
02600 Espoo-Finland
Tel: +358 10 3465185
sales@skysweep.com

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SkySweep Technologies

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

IP over VHF/UHF Data Radio SkyIPR



Industrie

Energy



Military

Public Safety



Public Transport

Longrange Communication

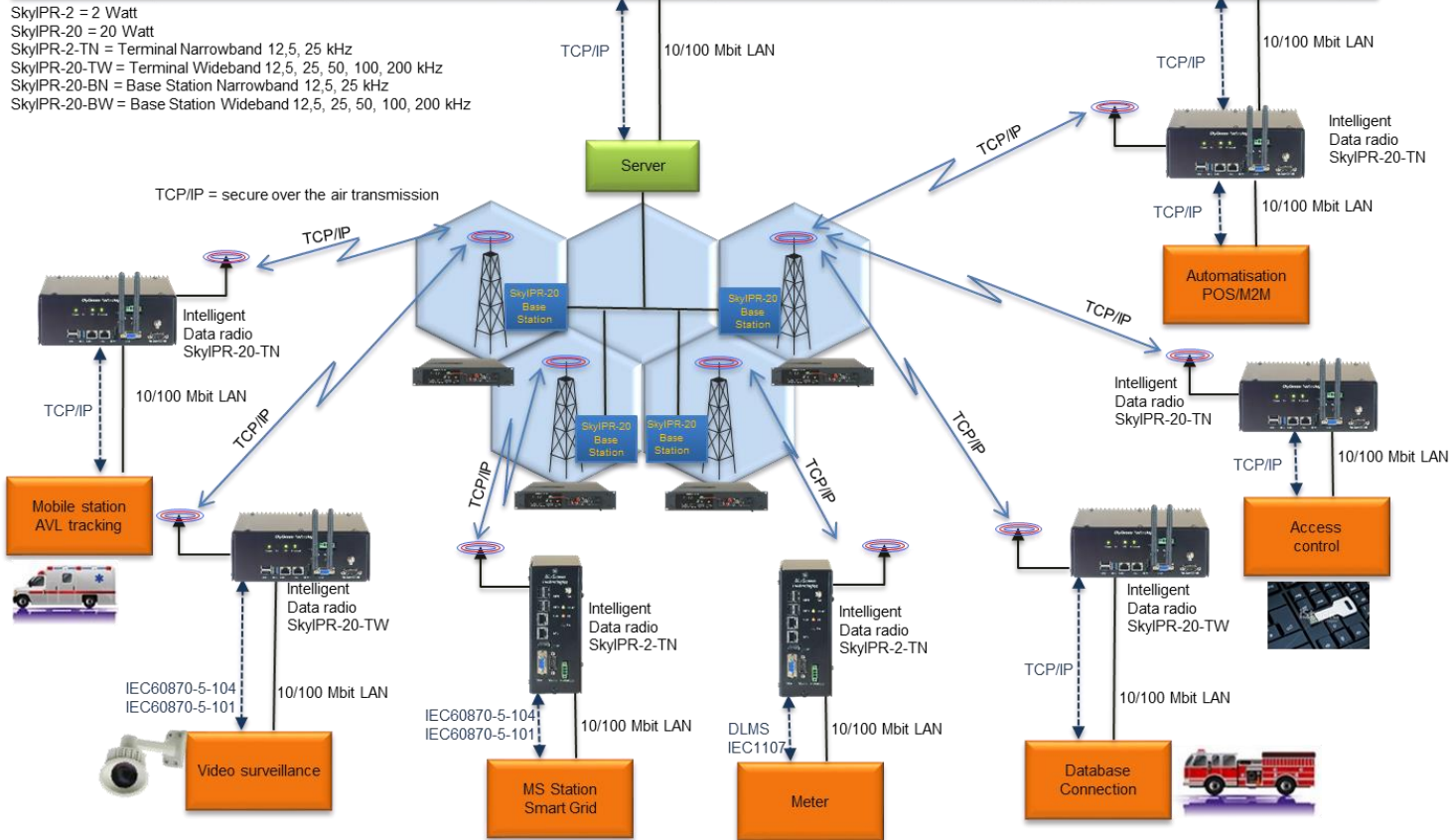


GPS-Tracking

Video



Wide Area IP Network (System Mode)



Technical Data

Available VHF/UHF frequency bands for order

- F1.1 66-88 MHz
- F2.1 140-170 MHz
- F3.1 250-270 MHz
- F3.2 270-330 MHz
- F4.1 330-370 MHz
- F5.1 400-512 MHz

TX Power

- SkyIPR-2-TN Data Radio max. 2 W
- SkyIPR-20-TN & TW Data Radiomax. 20 W
- SkyIPR-20-BN & -BW Base Stations max. 20 W

channel bandwidth and max. net data rates

12,5 kHz	59.6 kbit/s
25 kHz	136.3 kbit/s
50 kHz	272.4 kbit/s
100 kHz	553.7 kbit/s
200kHz	1.124.5 kbits

Modes

- DMO (P2P point-to-point and P2M Point-to-Multipoint)
- Trunking operation (IP Router and Bridge).

SkySweep Technologies

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

The SkySweep IP over radio system devices:

SkyIPR-2-TN Data Radio

- VHF/UHF frequency bands
- Windows embedded
- Ch.-bandwidth 12.5 and 25 kHz
- TX power max. 2 W
- 1 x RS232 (422, 485)
- 1x RJ45 10/1000 ethernet
- 1x HDMI / 1x VGA
- DIN-RAIL-mounting
- Temperature range -20° C - +70° C



SkyIPR-20-TN & SkyIPR-20-TW Data Radio

- VHF/UHF frequency bands
- Windows embedded
- SkyIPR-20-TN Ch.-bandwidth 12.5 and 25 kHz
- SkyIPR-20-TW Ch.-bandwidth 12.5, 25, 50, 100 and 200 kHz
- TX power max. 20 W
- 1 x RS232 (422, 485)
- 1x RJ45 10/1000 ethernet
- 1x HDMI / 1x VGA
- 2 x WLAN
- Temperature range -20° C - +70° C



SkyIPR-20-BN & SkyIPR-20-BW Base Stations

- VHF/UHF frequency bands
- Windows embedded
- SkyIPR-20-BN Ch.-bandwidth 12.5 and 25 kHz
- SkyIPR-20-BW Ch.-bandwidth 12.5, 25, 50, 100 and 200 kHz
- TX power max. 20 W
- 1 x RS232 (422, 485)
- 1x RJ45 10/1000 ethernet
- 1x HDMI / 1x VGA
- 19" enclosure
- Temperature range -20° C - +70° C

