



AUDIO RECORDING AND MONITORING



iROKS AUDIO SOLUTIONS

iROKS audio solutions

iROKS Audio platform enables:

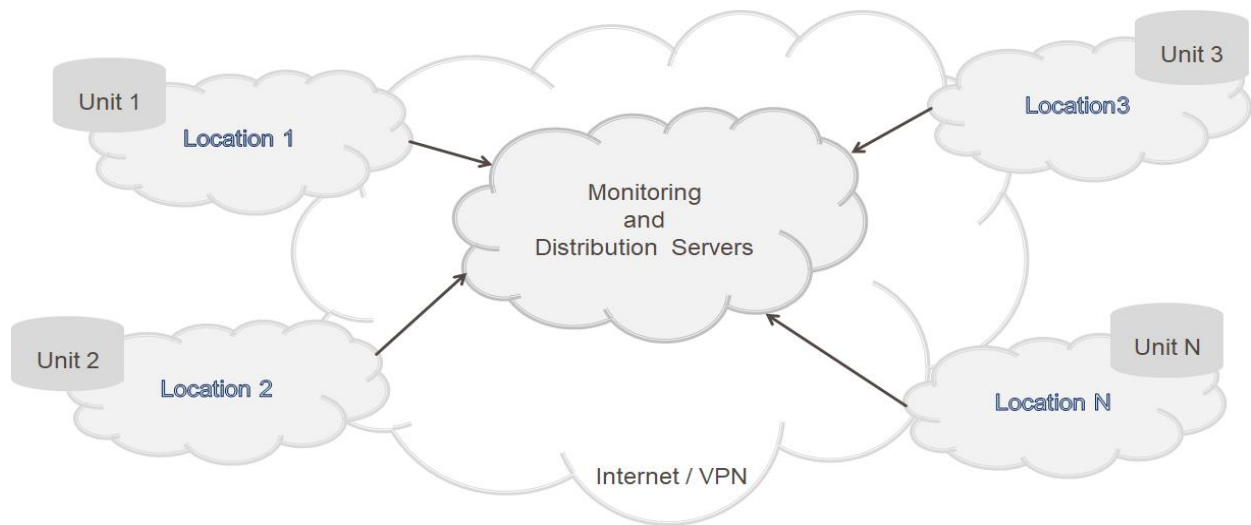
- multichannel audio capturing and microphone recording
- transcoding
- network and internet streaming
- real time signal analysis, monitoring and classification
- audio fingerprinting and comparison
- beamforming and beam steering
- detection of direction-of-arrival
- voice recognition
- fully autonomous operation without an Internet connection

Every unit can include additional relays (3A ... 10A, 300V) and GSM GPRS module. Depending on configuration the maximum distance for a signal source is 250 meters and one iROKS in Advanced-Level configuration can process audio signals from 62/240 audio inputs/microphones simultaneously. All devices can be connected to a single private network allowing remote access and monitoring.

iROKS product lines

iROKS offers a variety of hardware devices to meet your needs. The hardware you choose will determine the audio quality, available functions, maximal distance and a number of channels you can process at the same time. Functionalities can be divided into the following categories:

- **Entry-Level** (4 simultaneous channels)
- **Medium-Level** (32 simultaneous channels)
- **Advanced-Level** (62/240 simultaneous channels)

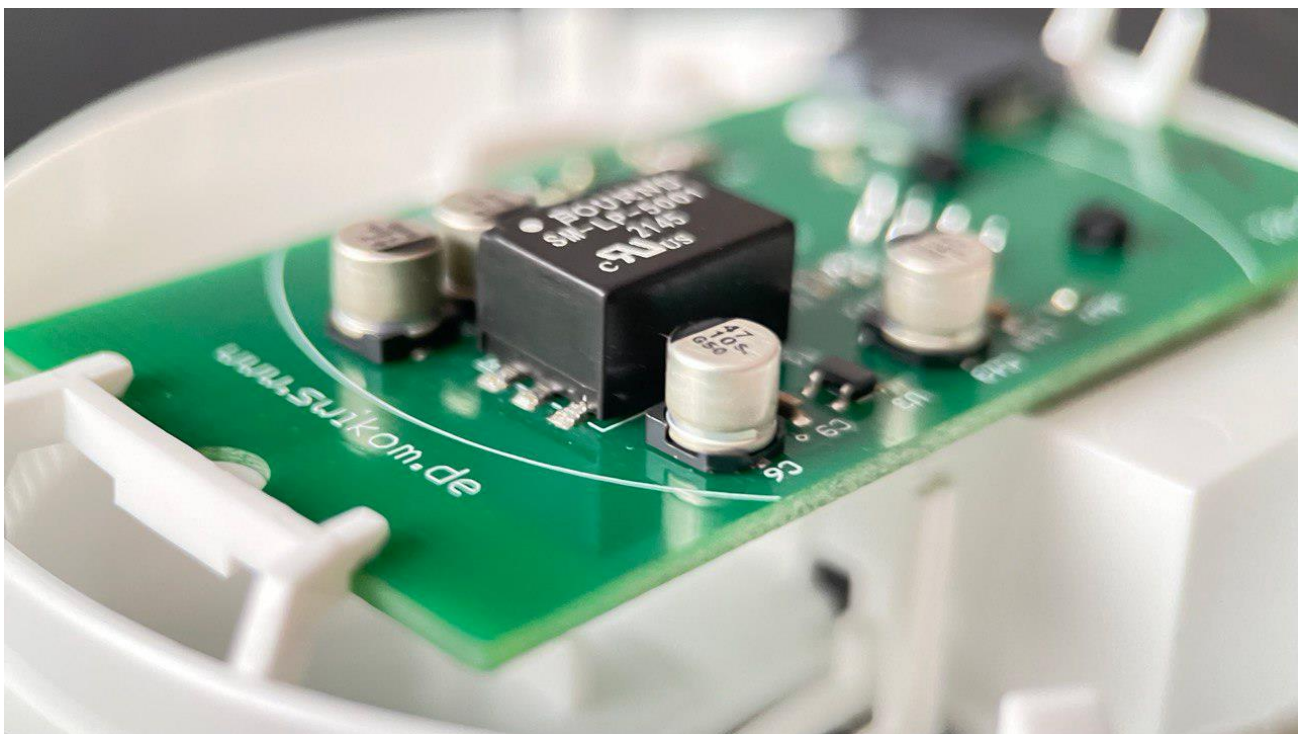


Key features and Benefits of iROKS audio solutions

- Scalability from 4 up to 62 and more audio channels
- Audio transmission distance up to 250 meter
- Flexible choice of integrated minicomputer
- Processor or GPU audio processing
- Integrated acoustic buzzer for remote controlling
- Optional integrated relays 3A-10A, 300V
- Optional support of GSM and GPRS
- Integrated HDD
- Integrated Monitoring
- Offline voice recognition
- Offline sound classification
- Cost effective software for 24/7 operation

Applications

- Smart City, Smart Building, Smart Home
- Environmental monitoring
- Access control and perimeter protection
- Industrial, e.g. vibrational analysis, seismic monitoring, sound analysis etc.
- Compliance and Recording
- Noise assessment and reduction
- Medical, e.g. contactless monitoring
- Transport
- Emergency rescue, Intelligence, defence



iROKS Entry-Level (4 channels)

iROKS Entry-Level models are intended for locations with an area of less than 50 square meters with 4 microphones.

Frontal view



Rear view



Frontal and rear view



Technical characteristics of iROKS Entry-Level

- Ultra-low noise for far field voice control applications
- Microphone unit frequency range: 75...8000kHz
- Ultra-high 70 dBA SNR
- 124 dB SPL acoustic overload point
- Maximum line distance: 250 m
- Voltage supply: AC 100...240V, 60W
- Number of channels: 4
- Ports: USB 3.0, HDMI, GPRS, Gigabit Ethernet
- Input connector for microphone module: RJ45
- Cable for microphone modules: UTP, Cat.5 or better
- Support 8 / 11.025 / 16 / 22.05 / 32 / 44.1 / 48 KHz sampling rate
- Support 16-bit resolution
- Acoustic buzzer remote control of microphone modules
- LED monitoring of the supply voltage in the lines
- LED signal monitoring of microphone units
- LED relay on/off control
- Support 7 dry contacts 3A, 300V
- Support 1 dry contacts 10A, 300V
- Support GSM GPRS 850/900/1800/1900 МГц, V2.0 MicroSIM
- Support of 1 HDD up to 5 TB
- Dimensions (1U enclosure): 430x203x44

Contacts

For more information please visit www.coherent-receiver.com.