

IF03FE & IF03FG

Integration of analog, digital communication devices over LAN/WAN network

The IF03 interface is a universal communication module for analog and digital radio system with network connection via VoIP.

The module offers connectivity for control and radio units.

On the front end 3 x 4 LED matrix shows the status of the supply voltage, the controller functions, ports and connections.

The USB-B socket is used for service, configuration and control functions with serial protocol baudrate 57600,8,1N; text commands. The network connection, LAN 10-100MBit, uses RJ45 socket with 2 LEDs. UDP audio and control data packets between IF03 are encrypted (IPSEC AES-256).

The module has 2 DSUB15 sockets for frontend device and 2 DSUB25 sockets for universal radio systems on the back side. The types of connected devices are detected using coding resistors in system cables. The combination of connected device types determines the configuration file to be loaded and selects parameter sets like IP number and functionality.



APPLICATION AND FUNCTIONALITY

- Gateway analog – digital
- Gateway digital - digital
- Control-Head (max.4CCP) via LAN on BER
- Tunneling serial port, I2C and digital IO over LAN, audio VoIP (RTP, optional SIP)
- Audio ring buffer 30 sec SQ-PTT-TX controlled (audio output to radio buffered and delayed till TX_ACK)
- Voice Recorder and audio-Vox using voice controlled PTT
- Integrated application for automatic emergency calls
- **Anwendun**



front rear

Technical Data

Connections: front

USB remote control	USB-B
LAN-connection	RJ45 8pol 10-100
Frontend CH1-CH2	DSUB15F

Connections: back

DC Connection 3pin	MC1,5/ST3-3,81 Pin 1 Plus +12V Pin 2 Shield Pin 3 GND –
Radio FG1-FG2	DSUB25F

Performance data

Power supply	12V ±5% 6A
Power consumption IF03 alone	3 Watt
Power consumption with BER-TX	max 38 Watt
Power consumption with AFG-TX	max 57 Watt
Fuse	9A
Operating temperature	
Normal operation	-10.. 50°C
Storage and transport	-20.. 60°C
Humidity	< 60% with <40°C
Standard and specifications	
Electromagnetic compatibility	ETS 301 489-5
Interference voltage EN 55011	EN61000-6-3
ESD-interference immunity	EN61000-6-2
Unloading	EN61000-4-2

Electromagnetic fields

80MHz – 1GHz	EN61000-4-3
900MHz – 2.5GHz	EN61000-4-3
Mobile radio 845-955MHz	ENV 50204
Transient-Burst	EN61000-4-4

HF-voltage 150kHz – 80MHz 10V/m	EN61000-4-6
Protection class IP43	IEC 60529
This device complies with EU regulation CE and RoHS	

Mechanical dimensions

19" Rack 4HE 5TE (BxHxT) w/o connection	25x173x167mm
Desktop version	25x155x167mm
Weight	600g

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