Roger Compact 2.8“

Professional audio and control terminal for PC-based mission-critical communication



- **Roger Link** for integration into PC-based communication and control room applications
- Direct RTP audio transmission for **full- and half-duplex communication channels**
- Support for **ACELP, G.711** and **AMR-WB** for **MCX/MCPTT** according to the 3GPP standard for narrowband and broadband communication
- Integrated **digital signal processing (DSP)** with **echo cancellation**, **noise suppression**, **limiter**, **compressor** and **equalizer**
- **Web-based** configuration, firmware updates and **SNMP monitoring**

Roger Compact is a network-capable audio and control terminal that extends PC-based communication and control room applications. The device handles audio processing and local control functions, while the communication application runs on the connected PC. A high-resolution **2.8-inch touchscreen, five dedicated PTT keys, separate keys for call and hang-up, and two volume controls with integrated mute function** allow fast and intuitive operation of microphones, speakers and audio levels.

SIP-based signaling to digital radio gateways and PBX systems is handled by the PC application, while **RTP audio is transmitted and processed directly by Roger Compact**. This **separation of signaling, control and media processing** enables flexible integration of Roger Compact into a variety of PC-based communication solutions.

Roger Link forms the **IP-based interface** between the PC application and Roger Compact. The protocol can be used to configure, control and monitor audio routing, volume levels, LEDs, display functions and local controls.

The **integrated voice recording** allows conversations to be recorded locally and played back afterwards for documentation purposes.

Thanks to a **Linux operating system** and **standard USB and Bluetooth interfaces**, Roger Compact supports a **wide range of commercially available audio peripherals. Headsets, speaker systems and other audio accessories** can be connected flexibly, without relying on proprietary hardware.

The **open system architecture** and the clear separation between PC application, control and audio processing enable flexible integration into various communication solutions. Roger Compact is designed for **easy integration, long-term maintainability** and use in professional, mission-critical communication environments.

Hagedorn Informationssysteme GmbH

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www.hagedorn-infosysteme.de
info@hagedorn-infosysteme.de



Technical specifications	
Processor	Cortex-A72 (Armv8) quad-core 1.5GHz
Memory	8GB LPDDR4 SDRAM
Storage	Built-in eMMC Flash 32GB
Operating system	Linux
Display	2.8inch Capacitive Touch Screen HDMI IPS LCD (480×640)
Power supply	Connector: MULTICOMP 2MJ-0402A120 Voltage: 10-15V DC Consumption: ≤60W
Network	Ethernet: 2xRJ45 10Mbps and 100Mbps with auto negotiation WiFi: Dual-Band (2.4GHz, 5.0GHz) IEEE 802.11 b/g/n/ac wireless Bluetooth: 5.0, Bluetooth Low Energy
USB ports	3x USB 2.0 (Type-A) 1x USB 2.0 (Type-C) service use only
Handsets	HOLMCO Funk 75 Tipro TM-HUM-5AW-C15C25
PTT and control buttons	7x programable PTT Buttons 2x digital rotary volume encoder with LED bar indicator 3.5mm female jack External PTT
Audio outputs	2x Built-in speaker, 4 Ohm/10W 2x external speaker connector RCA, 4-8 Ohm/10W 3.5mm female jack stereo output
Audio inputs	Built-in 4-Microphone array XLR-microphone connector with 48V DC Phantom power 3.5mm female jack mono input
Dimensions (HxWxD)	90 x 260 x 185mm
Weight	1700g (cradle) / 1420g (no cradle)
Operating temperature	-5ºC to +50°C
Storage temperature	-25ºC to +70ºC
EMC	EN 55022 Kl. B:2010 EN55024:2010

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