

LMSB-16C

Dispatching Touch Communication System for radio networks and telephone systems



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1583G
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Description:

The LMSB-16C introduces an interface system (communication hub) which allows interconnection and management of more communication networks: radio VHF, UHF (SW radios), satellite and terrestrial links, etc. and all types of telephone systems (analog, digital, IP). The system uses proprietary gateways integrating the world of voice and data into radio networks, e.g. Tetra, or into other digital or analog platforms. The system is based on the SIP protocol used for communication with IP exchanges, but includes also other protocols facilitating integration of the system into various environments.

The LMSB-16C is designed especially for control systems, operators and group communication operating in different telecommunication environments and for similar applications requiring integration of various equipment tailored to the requirements of end users.

The Dispatching Console is the core product of the LMSB-16C. The Console is intended for complex controlling tasks, planning, fast communication and phone call processing.



Dispatching Console



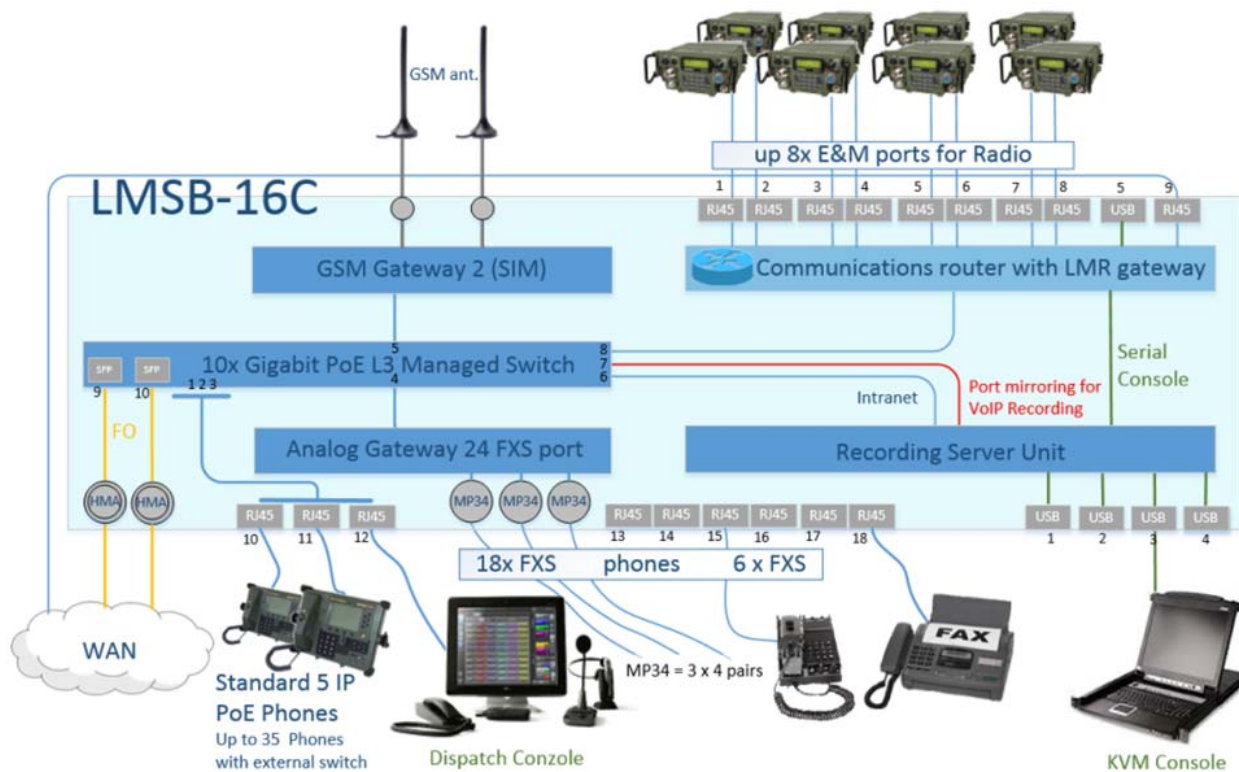
Illustration of the use of LMSB-16C

The LMSB-16C includes:

- **DTC-DOT** dispatching console
- **DTC-RGW** radio gateway connects calls and signalling between the radio stations in the TETRA or Mototrbo digital radio networks or in an analogue network and the KONOS-DOT Dispatch Console or any other devices or systems communicating over IP network.
- **DTC-LGW** legacy gateway
- **DTC-OBC** conferences server
- **DTC-AS** application server. Provides services needed for the interworking of more dispatch consoles. It is intended primarily for use in more complex solutions requiring mutual links between the terminals (e.g. switching of profiles, call pick up, installations distributed in several localities etc.).
- **DTC-HD** work, listening, taking calls, and sharing information in group

System features:

- The Server is installed in frame (4U Rack Mount)
- 3 x RJ45 1000 Mbps Connectors for LAN (2 of which are routed)
- 24 x FXS Connector for telephones (Analog Ports PSTN 4x4)
- Up to 8 E&M Radio connectors (Land Mobile Radio Gateway Architecture)
- 4 x USB port, 2 x recording unit (server), 2x Communication Router
- Screen connector (Serial port) KVM console (touchpad)
- Web-based graphical user interface (GUI) and CLI access
- VPN support for IP Security (IPSec) and SSL connectivity
- Video connectivity: VGA Port



System architecture of LMSB-16C

Network and Call features:

- DHCP, DDNS, Fixed IP addresses
- Voice media protocol (SIP Trunk) (SIP)
- Wireless communication using IP network
- Calls from IP Phone locally by trunk to any wire extension
- Call identification - In SIP and H.323 mode, to and from IP phone, FXS
- Call recording (analog and IP voice) - option
- Conference calls - Maximum Conferencing Sessions:
 - Up to 32 participants for G.711 conferences
 - Up to 16 participants for G729/G729A/G.722 conferences
 - Up to 8 participants for iLBC conferences
- Regulate waiting calls - redirecting, awaiting a call, interception of call,
- Interactive voice with PC - IVR support, Automated Attendant
- Compatible with legacy old networks

Technical specifications of the Dispatching console:

- Operating system: Linux
- Interface: Capacitive touchscreen 17" in industrial design, Two redundant Ethernet 10/100/1000Base-T(X)
- Independent audio: the handset, speakerphone, headset
- Voice channels, Processing: voice activity detector VAD, Comfort Noise Generation (CNG), packet loss concealment (PLC)
- You can choose to transmit voice across your network as either uncompressed pulse code modulation (PCM) or compressed from 5.3 to 64 kbps using standards-based compression algorithms (G.711, G.729, G.729a/b, G.722, Internet Low Bitrate Codec [iLBC], G.723.1, G.726, or G.728).
- Power supply: 12V/80W (external AC inverter 230V or 110V)
- Mechanical Specifications: Size: 390 x 330 x 280 mm, Weight 6.9 kg , Adjustable stand