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## Telecommunication router ŁK-24V

- ✓ The ŁK-24V is a universal field device, functioning as a router with an Ethernet switch for 12 ports and a telephone exchange for VoIP devices. Thanks to the compact size and light weight, it may be taken out to tents or anywhere else, allowing to develop a local computer or telephone network. The device may cooperate with shelters RWŁC-10/T/K, functioning as a block increasing the capacity of these shelters, with satellite terminals TDMA or any other IP transmission systems. It can also operate independently as a telephone exchange and an IT central.
- ✓ The ŁK-24V has an in-built UPS, which enables it to function independently for at least 30 minutes without power supply (at full load by VoIP, ISDN and analog telephones). It renders one route of ISDN E1 PR1 available, with the possibility to create up to 30 simultaneous connections between the IP network and the telephone network.
- ✓ With T.38 FoIP, functions of sending facsimiles and modem transmissions, the ŁK-24V makes it possible to integrate networks of voice and data transmission services. The support of the SIP, H.323 signaling along with the PoE function on the switch ports enables the ŁK-24V to easily develop local networks consisting of VoIP phones.





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### Switch parameters

Ethernet ports 12 x Ethernet 10/100/1000BASE-T, VoIP, PoE per IEEE 802.3af P<sub>MAX</sub><15.4 W,  
1 x Ethernet 100BASE-FX, CTOS connector  
4 x ISDN S with Q.931 & Q.921 signaling;  
20 subscribers lines, DTMF signaling;

Switching Layer 2 and Layer 3

VLAN 4 000 groups (IEEE 802.1Q)

### VOIP parameters

Number of voice channels 30

Supported codecs G.711 aLaw and uLaw, G.723.1 5.3 kb/s and 6.3 kb/s, G.726, G.729

IP version IPv4 according to RFC 791

Supported IP signaling SIP, H.323 protocols,

Supported ISDN signaling  
ISDN PRI Lucent 5ESS  
ISDN PRI National ISDN1  
ISDN PRI Nortel DMS 100  
ISDN PRI Euro ISDN  
ISDN PRI French VN4  
ISDN PRI Nortel DMS 100 (Belleville)

Number of ISDN PRI group 2 x G.703 trunks, G.704 framing, ISDN (Q.931, Q.921) signaling,

Functionality RIP v1, RIPv2, OSPF, BGP routing protocols  
STP protocol, DHCP

Management Terminal, SNMPv3, HTTP

Others Throughput 24 Gb/s (wire-speed for IPv4 forwarding and L2-switching)  
QoS  
Port mirroring,  
Link aggregation (IEEE 802.3ad)  
Hardware firewall,  
16 conference,  
Fax T.38

Power supply ~230 V AC, +48 V DC,  
UPS (30 minutes)

Mechanical and environmental standards: N14 (per NO-06-A103)  
exceptions: temperature range -30°C (external power supply),  
-20°C (internal power supply);  
up to +50°C, storage from -40°C to +65°C;  
no sinking requirements;

Mechanical specification dimensions: 536 x 272 x 428 mm  
weight: less than 50 kg (with ZARGES)  
carrying case: ZARGES 5U