



Telecommunications router

ŁK-24V

Support of 20 analogue lines with DTMF dialing

Support of 4 ISDN digital lines equipped with the S connector

Possibility to cooperate with STORCZYK devices

Support of VoIP signaling - SIP and H.323

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 built-in 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 VoIP, 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 signalization along with the PoE function on the switch ports enables the ŁK-24V to easily develop local networks consisting of VoIP phones.

Telecommunications router ŁK-24V makes it possible to:

- to combine connections between a network of switching packages (VoIP) a network of switching channels;
- to support 20 analogue lines with DTMF dialing;
- to support 4 ISDN digital lines equipped with the S connector;
- to support the ISDN signaling (Q.931 and Q.921);
- to support the VoIP signaling - SIP and H.323;
- to operate without external voltage supply based on the internal UPS;
- to power VoIP telephones by Ethernet (PoE).



TECHNICAL PARAMETERS

BASIC FUNCTIONALITIES

Creating the local or wide network based on a highly-efficient 13-port router, with electrical ports and one optical port

Connecting two switchboards by ISDN PRI trunks with DSS1 signaling

Combination of connections between ISDN and VOIP networks and while using the SIP or H.323 signaling

Connection of 20 analogue phones with DTMF dialing

The ZARGES case enabling the operation of the device in the open area and protecting in a transport against mechanical exposures and water

Control by WWW

Supply by an alternating voltage of 230 V/50 Hz or fixed voltage of +48 V

VOIP PARAMETERS

Number of voice channels	30
VoIP codecs	G.711 aLaw and uLaw, G.723.1 5.3 kbps and 6.3 kbps, G.726, G.729
IP version	IPv4 according to RFC 791
VoIP signaling	SIP, H.323
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)
ISDN trunks	2 x G.703, G.704, ISDN (Q.931, Q.921)
Functionality	RIP v1, RIPv2, OSPF, BGP STP protocol, DHCP

OTHER PARAMETERS

Management interfaces:	Terminal, SNMPv3, http
Throughput	24 Gbps (wire-speed for IPv4 forwarding and L2-switching)
QoS	
Port mirroring	
IEEE 802.3ad	
Hardware Firewall	
16 conferences	

INTERFACES

	4xISDN S with Q.931 and Q.921 20 subscribers lines, DTMF signaling 8D0C13W04PN Souriau connector
Speed rate	10/100 Mbps
Switching	Layer 2 and Layer 3
VLAN	4 000 group according to (IEEE 802.1Q)

INTERFACES

Electrical Ethernet Interface	12x10/100/1000Base-T/TX VoIP, PoE according to IEEE 802.3af P _{MAX} <15.4 W
Optical Ethernet Interface	1x100Base-FX Type of optical fibre Multi-mode: 62,5/125 µm or 50/125 µm ½ CTOS connector
Transmitter power	-18 dBm ± 6 dBm
Receiver sensitivity	-28 dBm
Wavelength	1310 nm

POWER SUPPLY

Power supply	Alternating 230 VAC or fixed +48 VDC UPS (30 minutes)
Power consumption	<600 W or <500 W

OTHER TECHNICAL PARAMETERS

Dimensions (HxWxD)	272x536x428 mm Carrying case ZARGES 5U
Weight	<42 kg
Mechanical and climatic classification	Group N.14-UZ-II(A and B), acc. NO-06-A101±108 (MIL-STD-810G compliant) (multi-use and continuous use equipment)
Electromagnetic compatibility	NO-06-A200 (MIL-STD-461F compliant) (KRE-02, KCE-02, KCS-01, KCS-06, KCS-07, KCS-08, KRS-02)
Operating temperature	From -30°C to +60°C
Storage temperature	From -40°C to +65°C
Humidity resistance	95-98% at +40°C



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