



Tactical router

RP-110-01

Highly efficient IP router

Option IPsec encrypted connections execution

Option of setting up GRE tunnels

Execution of access control services via ACL lists

Operation via WWW

Rugged compact case

The tactical router RP-110-01 device functions as IP router and a stream and slit commutator with the option of outputting G.703, STANAG 4210, 2- and 1-pair SHDSL interfaces as well as optical tracts and Ethernet interfaces.

RP-110-01 is designed to perform the communications of PDH streams, their sub streams and framed channel tracts In accordance with described below modes as well as in cooperation with similar devices to establish a WAN structure based on communications network. Router ensures routing in the network (IP routing), as well as management via WWW and console, QoS marking and traffic control, firewall. Access to the WAN network is achieved from a local network through specified below number of Ethernet interfaces.

The RP-110-01 router is designed for use in mobile (e.g. field equipment stations) and stationary equipment sets used for IP network construction. Rich functionality of the router enables creation of advanced network configurations on the basis of RP-110-01.

The device enables long-term commutation of digital tracts and construction of a framework-access teleinformatic network of IP type. Internal IP router makes it possible to combine up to 16 WAN connections. Data packets sent and commuted in the network are IP packets conforming to the RFC 791 recommendation.

During operation within a teleinformatic network and a WAN network, the device may cooperate with devices supporting standards described below, in particular with Transbit devices such as:

- ZZO-12, ZZO-12-01, ZZO-12R and ZZO-12R1 optical terminals set;
- ZL-12E1 super efficient router IP;
- RP-101 tactical router;
- ŁC-240D, ŁC-480D digital switch,
- ŁK-24V, ŁK-24VC switch-multiplexer;
- Family of WP-40Ax packet switches;
- SHDSL MSH-4 modem.

The RP-110-01 is adjusted to operate in motion and designed to be used in three positions. In case of use in tactical vehicles (e.g. Rosomak), installation using special cushioning elements supplied by the manufacturer (optional) is possible.



TECHNICAL PARAMETERS

BASIC FUNCIONALITIES

Efficient IP router and a commutator of streams and slits

Execution of tract connections

IPv4 protocol

Framing and commutation

Optical and electrical Ethernet interfaces

Configuration via WWW

COMMUTATION POSSIBILITIES

Option of stream framing using 16 kb (STORCZYK) or 64 kb (PCM) slits

Option of tracts commutation with other tracts and with WAN interfaces of the router

Option of slits commutation between 16 kb, 64 kb framed tracts and non-framed streams

Option of STORCZYK framed stream commutation into other STORCZYK streams, including synchronization slit

Option of slit commutator synchronization using a clock from any external tract

PARAMETERS OF HARDWARE ROUTER

Routing protocols RIPv2, OSPF, BGP

Tunnels IP-Sec encrypted tunnels
(manually and IKE)

GRE tunnels

QoS, packet marking and band management

Firewall, IP traffic filtering, access lists

Management via WWW, SNMP, console and internal panel of the device

IPv4 protocol support

Routing efficiency for packages with length exceeding 64 B (RFC 2544):

- routing between two ETH interfaces – 1 Gbps

- total routing efficiency between ETH interfaces – 4 Gbps

Routing efficiency from WAN interfaces Minimum 160 Mbps
(for 16 WAN directions)

INTERFACES

Electrical Ethernet interface **1x10/100Base-T/TX**
RJ45 connector

Speed rate 10/100 Mbps

Optical Ethernet interface **5x100Base-FX**
ST connector (or MFM)

Wavelength 1310 nm ± 30 nm

Transmitter power -18 dBm ± 6 dBm

Receiver sensibility -28 dBm

Speed rate 100 Mbps

Electrical tracts **2xSTANAG 4210 or G.703**

Operation mode E1, stream, 16 kb framed, Storczyk,
64 kb (PCM)

Speed rate Up to 2 Mbps

Electrical tracts **4xSHDSL**

Operation mode E1, 1 or 2-pair, stream, framed,
64 kb (PCM)

Speed rate Up to 2 Mbps

Optical tracts 3xOPTO

Operation mode E1, E2, E3, Mulas*

POWER SUPPLY

Power supply +27 V (from 18 V to 36 V)

Power consumption <50 W

OTHER TECHNICAL PARAMETERS

Dimensions (HxWxD) 68x330x265 mm

Weight <6 kg

Mechanical and climatic classification Groups N.7, N.9 and N.11-O-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 +50°C

Storage temperature From -40°C to +65°C

Humidity 95-98% at +40°C

* own Transbit solution, enabling any part of the 34 Mbps tract for transmission of teleinformatic data and 3 independent tracts up to 2 Mbps (total 4 tracts with 34 Mbps bandwidth).



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AQAP 2110:2016
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PN-EN ISO 9001:2015

Transbit Sp. z o.o.
ul. Łukasza Drewny 80
02-968 Warszawa

tel: +48 22 550 48 00
fax: +48 22 550 48 10
e-mail: biuro@transbit.com.pl