Tactical router

RP-110-05

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-110-05 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 trunks and Ethernet interfaces.

The RP-110-05 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-110-05.

The RP-110-05 is qualified to N.7, N.9 and N.11-O-II (A and B) groups depending on the order and according to NO-06-A101 and NO-06-A103 (MIL-STD-810G compliant) (multi-use and continuous work equipment) within the working temperature range from -30°C to +60°C.

The RP-110-05 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.

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CCJ
AQAP 2110:2016
AQAP 2210:2016
PN-EN ISO 9001:2015

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TRANSBiT

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 trunks commutation with other trunks and with WAN interfaces of the router
Option of slits commutation between 16 kb, 64 kb framed trunks 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 trunk

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** RJF-45 connector
Speed rate	10/100 Mbps
Optical Ethernet interface	**5x100Base-FX** MFM connector (or ST)
Wavelength	1310 nm ± 30 nm
Transmitter power	-18 dBm ± 6 dBm
Receiver sensibility	-28 dBm
Speed rate	100 Mbps
Electrical trunks	6xSTANAG 4210 or G.703
Operation mode	E1, stream, 16 kb framed, Storczyk, 64 kb (PCM)
Speed rate	Up to 2 Mbps
Electrical trunks	**4xSHDSL**
Operation mode	E1, 1 or 2-pair, stream, framed, 64 kb (PCM)
Speed rate	Up to 2 Mbps
Optical trunks	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 or 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 trunks for transmission of teleinformatic data and 3 independent trunks up to 2 Mbps (total 4 trunks with 34 Mbps bandwidth).

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