



## Tactical router

# RP-120-01

---

*Highly efficient IP router*

---

*Serial synchronous and asynchronous interfaces*

---

*Cooperation with modems used in communication systems*

---

*Safe management of other system devices*

---

*Operation via WWW*

---

*Rugged compact case*

---

The tactical router RP-120-01 device operates as a network router with serial interfaces operating in RS-232C standard in asynchronous or synchronous mode (to which digital modems produced by Transbit, such as MK-64P, MK-64/128 and MK-16BW, operating in MK-16 or MK-64 may be connected, as well as analog modems Telsoft 2842MF-PIT), and an electrical interface 10/100/1000Base-T/TX and an optical interface 100Base-FX, which enables creation of field IT networks.

The RP-120-01 is designed for use in mobile (e.g. field equipment stations) and stationary equipment sets used for IP network construction. The device enables construction of a framework-access teleinformatic network of IP type. The router enables 2 different Ethernet interfaces and up to 8 serial interfaces. Data packets sent and commuted in the network are IP packets conforming to the RFC 791 recommendation. RP-120-01 cooperates with other network devices available on the market, regardless of the manufacturer. Rich functionality of the router enables creation of advanced network configurations on the basis of RP-120-01.

In addition, RP-120-01 manages other devices in a communication network, via RS-232C contacts, ensuring device configurations, i.e. such as:

- ŁK-24VC switch-multiplexer;
- ŁK-24VC-EX switch-multiplexer;
- RP-101 tactical router;
- RP-110 tactical router;
- R-450C-01 wideband radio.

User application software may effectively manage communication devices set of a site through the RP-120-01 router, using on-board local network for contacting RP-120-01.

The RP-120-01 is a device designed for operation whilst moving and for use in three positions. RP-120-01 may not be installed **directly** on the shield of a vehicle or on a container wall. Installation is possible using special absorbing elements provided by the manufacturer.



## TECHNICAL PARAMETERS

### BASIC FUNCTIONALITIES

Efficient IP router  
Routing protocols RIPv2, OSPF  
IPv4 protocol  
Cooperation with modems in asynchronous and synchronous mode  
Management of communication devices set using RS-232C contacts  
Electrical and optical interfaces accordance with Ethernet standard  
Configuration via WWW

### INTERFACES

**Electrical Ethernet interface**      **1x10/100/1000Base-T/TX**  
RJ45 connector  
Speed rate      10/100/1000 Mbps

**Optical Ethernet interface**      **5x100Base-FX**  
MFM-002RZN connector  
(MFM-49-07-011-5-0.5-LC) Amphenol

Wavelength      1310 nm ±30 nm  
Transmitter power      -18 dBm±6 dBm  
Receiver sensibility      -28 dBm  
Speed rate      100 Mbps

Serial interface      8xRS-232  
8D0C17W26SN Souriau connector

### PARAMETERS OF HARDWARE ROUTER

Network protocol      IPv4  
Routing protocols      OSPFv2 (RFC 2328), RIPv2 (RFC 2453),  
PIM-DM (RFC 3973),  
PIM-SM (RFC 2362)

Access lists      Yes  
GRE Tunels      Yes

QoS, packet marking and band management

### POWER SUPPLY

Power supply      +27 V (from 18 V to 36 V)  
Power consumption      <50 W

### OTHER TECHNICAL PARAMETERS

Dimensions (HxWxD)      68x330x265 mm  
Weight      <8 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 resistance      95-98% at +40°C

