

The mobile telecommunication system MTK-257B is designed for the organization of cable (fiber-optic and wire) communication lines, providing communications centers of mobile command posts with analog and digital channels.



### The mobile telecommunication system MTK-257B provides:

- connection of the optic cable KPO-G-40, cable P-274M and other copper cables;
  - organization of two fiber-optic communication lines STM-1 with 100% hardware redundancy via an optic single-mode cable 40km long, using the SMD multiplexer;
  - organization of two digital SDSL transmitting systems at the rate of 2048 Kbit/s via one cable pair P-274M 5km long, using the SMD multiplexer;
  - forming of four Ethernet channels and their transmission in STM-1 signal structure at the rate of up to 86,016 Mbit/s;
  - interfacing of synchronous E1 flows from SDH switch (central and standby) into the subscriber access switch;
  - forming of: 30 E1 flows; 4 Ethernet channels with the rate up to 2Mbit/s; 4 FXO terminals; 4 FXS terminals; 12 4-wire TFC-s;
- switching of channel slots in E1 flows;
  - switching of Ethernet 10/100BaseT 11 channels traffic with the routing function;
  - manual switching of E1 and Ethernet 10/100BaseT channels with a capability of their dropping to the cable entries;
  - functioning of the embedded operator workstation of communication tools, equipped with PC and corresponding software;
  - placing of telecommunication equipment into an impact-proof, dust-proof and moisture-proof case.

### Electric power supply:

- AC network, 230V, 50Hz;
- DC power supply, 48 – 60V;
- external storage battery, 48V (within an hour).

AC network power consumption:

- MTK-257B, max. – 250 W.



Battery unit for MTK-257B



**Resistance to external influencing factors:**

- the systems' enclosures are impact-proof, dust-proof and moisture-proof with the protection level IP-67 at the environmental temperature -50°C ... + 65°C and relative air humidity 98% at the temperature 25°C;
- resilience, durability, resistance of the mobile telecommunication system MTK-257B to external influencing factors meet the requirements of the operating group 3.1 GOST standard 15150 of the climatic version "humid microthermal climate".

**Peculiarities:**

the mobile telecommunication system MTK-257B allows replacing old channelizing equipment vehicles P-257-24(60), at that MTK-257B surpasses them in channel capacity, quality and quantity of supplied communication and mobility service.

**The mobile telecommunication system MTK-257B was put into service of the Armed Forces of the Republic of Belarus in 2013. Serial production has been realized since 2014.**

**Note:** *Technical characteristics may be changed according to the Customer's requirements.*

