

TK-100 IP Encryptor



Transkrypt TK-100 is an encryptor securing IP transmission, which was built with the use of the latest achievements within the scope of data protection.

Thanks to TK-100 it is possible to:

- build secure IP networks both for military and civil purposes,
- modify easily functioning IP networks in order to protect transmitted data.

The Encryptor TK-100 ensures the following:

- Ipv4 data transmission up to 100Mb/s bandwidth,
- NAT/T compatibility,
- support for Multicast,
- confidentiality, with the use of block codes: AES, DES, 3DES, Twofish, Blowfish working in CBC mode with randomly generated vectors IV or by using encryption algorithm provided by a customer,
- network traffic masking (thanks to the use of tunnel mode ESP),
- strong authentication mechanism using elliptic curves,
- protection against replay attacks (thanks to ESP),
- protection against attempts to manipulate instrument resources,
- emergency system erasing sensitive data,
- local and remote management (through WWW, built-in operator's panel, installation of prepared configuration from a secure data carrier),
- manual or remote keys distribution (based on IKEv1 or IKEv2),
- accountability,
- conformity with the norm AMSE-720B,
- conformity with the norm NO-06-A103:2005 for the group N.7,
- compatibility with other network devices conforming with supported RFC.



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TK-100 IP Encryptor

Technical parameters

Operating safety:

- individual cryptographic cards activating the device,
- PIN numbers are known only by operators,
- physical protection of device resources against attempts of external ingerention,
- emergency data erasing button

Interfaces

BLACK network interface

- 100BaseFX
- IPv4 (RFC 791)

RED network interface

- 100BaseFX
- IPv4 (RFC 791)

Operating parameters:

- operating temperature: from -30°C to +50°C

Power supply

- voltage: 22 - 30 V
- power consumption: 20 - 30 W

Montage

- case enabling a montage in the rack of 19"

Dimensions

- size: 2U
- dimensions 482 mm x 88 mm x 230 mm

Weight

- 10 kg

Conformity with IPsec RFC

- RFC 2401 Security Architecture for the Internet Protocol
- RFC 2403 The Use of HMAC-MD5-96 within ESP and AH
- RFC 2404 The Use of HMAC-SHA-1-96 within ESP and AH
- RFC 2405 The ESP DES-CBC Cipher Algorithm With Explicit IV
- RFC 2406 IP Encapsulating Security Payload
- RFC 2408 Internet Security Association and Key Management Protocol
- RFC 2409 The Internet Key Exchange
- RFC 2451 The ESP CBC Mode Cipher Algorithms
- RFC 4303 IP Encapsulating Security Payload (ESP)
- RFC 4306 Internet Key Exchange (IKEv2) Protocol



Get to know an exemplary connection system:

R-450C
IP-Radio

TK-100
IP-Sec

RP-310
Router

Scheme of connections

