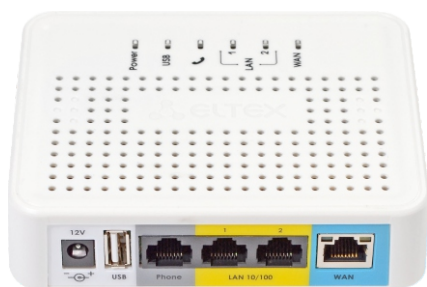


TAU-1M.IP



TAU-1M.IP is a VoIP gateway with an embedded router. The device has an FXS port and 2 LAN 10/100Base-T ports for TV or set-top boxes connection. The gateway is connected to service provider networks via a WAN 10/100Base-T port and has a USB port for 3G/4G modems or USB storage devices.

Eltex.ACS (TR-069) management system

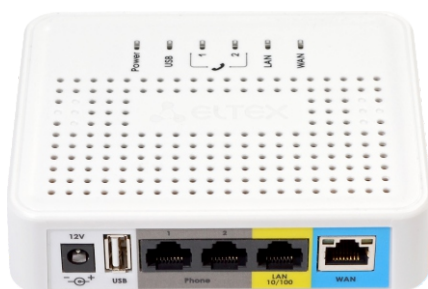
Eltex.ACS autoconfiguration system implemented on the basis of TR-069 protocol provides an operator with convenient functionality for firmware versions and customer devices' configurations management. Eltex.ACS uploads an individual configuration to the device automatically, according to a subscriber's account data. A function of firmware version intellectual upgrading works successively with network devices by updating groups of them according to an assigned queue discipline. Eltex.ACS system is provided with NorthBoundInterface (NBI) for interacting with OSS complexes.

Ease of usage

User-friendly management interface with multilanguage support provides the ease of usage of TAU-1M.IP VoIP gateway on the operator's network.

- High-quality sound
- Fax transmission
- 3G/4G USB modems support

TAU-2M.IP



TAU-2M.IP and **TAU-4M.IP** are VoIP gateways intended for connecting analogue telephones and facsimile sets to an IP network. The service is provided via a converge data transmission network, where different IP-PBX can be used as a switching node.

Fax transmission

Transmission of facsimile messages is implemented by means of audiocodec G.711 pass-through and via T.38 protocol.

High-quality sound

High-performance hardware platform based on up-to-date Realtek chipset, support for all basic audio codecs used in VoIP networks (G.711, G.723.1, G.726, G.729), echo cancellation functions, silence detector, comfort noise generator, DTMF signal reception and generation, as well as traffic prioritization mechanism (QoS) provide high quality of voice data.

TAU-4M.IP



Channel redundancy

In case of a primary SSW connection loss, the device switches to a redundant SSW and monitors the state of the primary. If the device loses connection with both IP servers, calls between local subscribers still can be switched.

- Triple Play
- VLAN per service
- AutoProvision (TR-069, DHCP)

Interface configuration

	WAN	LAN	FXS	USB
TAU-1M.IP	1	2	1	1
TAU-2M.IP	1	1	2	1
TAU-4M.IP	1	1	4	1

Technical features

Interfaces

- 1 FXS port for TAU-1M.IP
- 2 FXS ports for TAU-2M.IP
- 4 FXS ports for TAU-4M.IP
- 1 WAN 10/100Base-T port
- 2 LAN 10/100Base-T ports for TAU-1M.IP
- 1 LAN 10/100Base-T port for TAU-2M.IP
- 1 LAN 10/100Base-T port for TAU-4M.IP
- 1 USB2.0 port

VoIP protocols

- SIP

Voice codecs

- G.711 a-law, μ -law
- G.722
- G.723.1
- G.726
- G.729 (A/B)

Fax transmission

- T.38 UDP Real-Time Fax
- a-law, μ -law G.711 pass-through

Voice standards

- VAD (Voice Activity Detection)
- CNG (Comfort Noise Generation)
- AEC (echo cancellation, G.165, G.168 recommendations)

DTMF

- DTMF signal detection and generation
- Transmission via INBAND, RFC 2833, SIP INFO

Value Added Services

- Call Hold
- Call Transfer
- Call Waiting
- Call Forward on Busy (CFB)
- Call Forward on No Reply (CFNR)
- Call Forward Unconditional (CFU)
- Caller ID
- Calling line identification restriction (CLIR)
- Hotline/Warmline
- Call Group
- 3-Way conference

VoIP functionality

- Internal connections switching
- Operating without SIP-server
- Flexible dial plan
- Port configuration profiles
- Application of settings without rebooting
- IMS (3GPP TS 24.623) support for Hold, CW, 3-Way conference, Hotline services management
- SIP TLS support
- # symbol transmission as %23
- Support for up to 4 redundant SIP servers

Quality of service (QoS)

- Diffserv and 802.1p priority assignment for SIP and RTP
- Incoming traffic prioritization according to DSCP and 802.1p

Connection types

- Static IP address
- DHCP client
- PPPoE
- PPTP
- L2TP

Network functions

- “Bridge” and “router” operation modes
- NAT
- Static routing
- VLAN per service (Internet, VoIP, IPTV)
- IGMP
- DHCP, DNS server on LAN side
- Port forwarding
- Firewall
- 3G/4G router mode
- UPnP

Supported specifications

- RFC 3261 SIP 2.0
- RFC 3262 SIP PRACK
- RFC 4566 Session Description Protocol (SDP)
- RFC 3263 Locating SIP servers for DNS lookup SRV and A records
- RFC 3264 SDP Offer/Answer Model
- RFC 3311 SIP Update
- RFC 3515 SIP REFER
- RFC 3891 SIP Replaces Header
- RFC 3892 SIP Referred-By Mechanism
- RFC 4028 SIP Session Timer
- RFC 2976 SIP INFO Method
- RFC 2833 RTP Payload for DTMF Digits, Flash event
- RFC 3108 Attributes ecan and silenceSupp in SDP
- RFC 4579 SIP Call Control - Conferencing for User Agents
- RFC 3361 DHCP Option 120
- RFC 3550 RTP A Transport Protocol for Real-Time Applications
- RFC 3611 RTP Control Protocol Extended Reports (RTCP XR)

Management

- WEB (English and Russian versions)
- Telnet
- SSH
- FTP
- Syslog
- TR-069 (recommended to work with Eltex.ACS server)
- DHCP autoprovisioning (periodic or scheduled)
- SNMP (configuration and monitoring)

Technical features

Diagnostics

- Device status monitoring via Web interface
- Debug information output to Syslog/Telnet
- Subscriber lines parameters testing

Security

- Username and password verification
- Firewall
- Admin/user/viewer access rights

USB port

- Connection of USB drive with FAT/FAT32/EXT2/EXT3/EXT4/NTFS file systems
- USB 3G/4G modem connection – operating in 3G/4G router mode

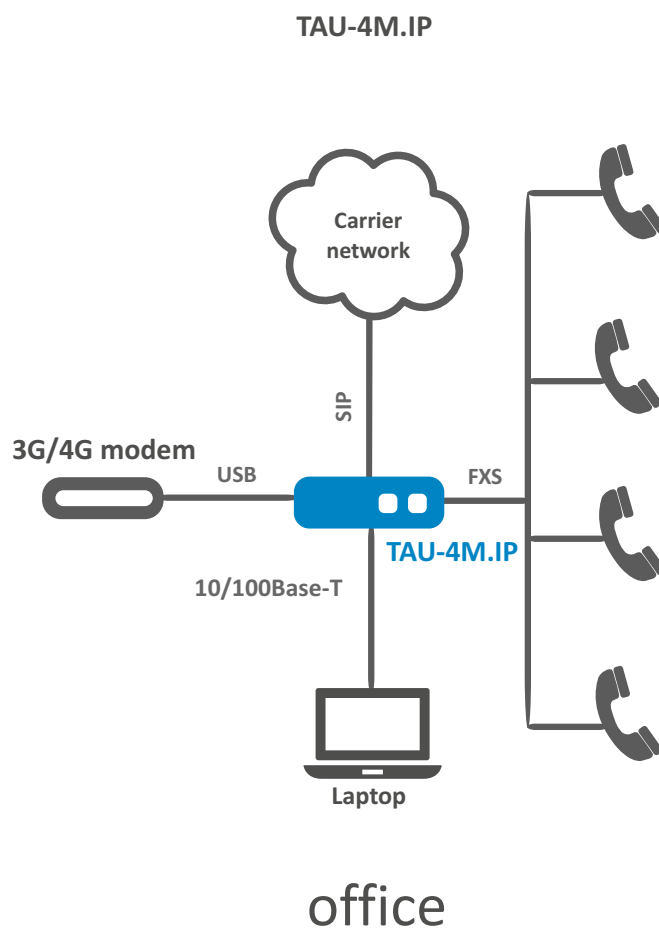
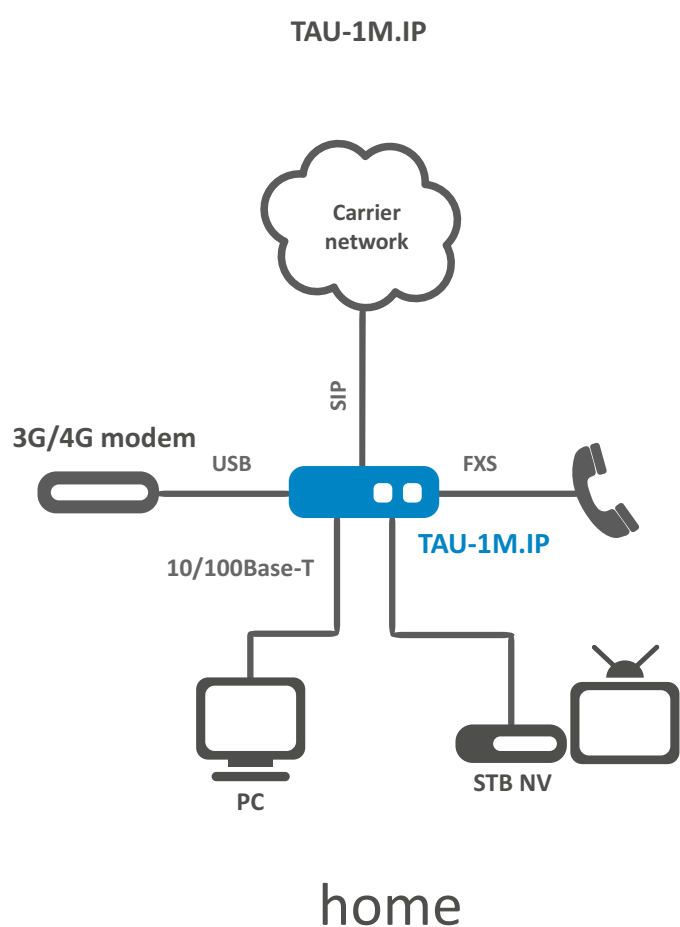
Main technical features

- Realtek 8972C processor
- SDRAM 128 MB
- SPI Flash 8 MB
- OS Linux




Physical characteristics

- Power adapter: 12V DC, 1 A
- Power consumption: no more than 6 W (TAU-1M.IP), no more than 7.2 W (TAU-2M.IP), no more than 12.5 W (TAU-4M.IP)
- Operating temperature: from +5 °C to +40 °C
- Relative humidity: up to 80%
- Dimensions: 122x96x33 mm (TAU-1M.IP and TAU-2M.IP), 187x120x32.5 mm (TAU-4M.IP), desktop design

Use case




Ordering information

Name	Description	Image
TAU-1M.IP	Subscriber VoIP gateway with embedded router TAU-1M.IP: 1xFXS, 1xWAN, 2xLAN, 1xUSB, SIP	
TAU-2M.IP	Subscriber VoIP gateway with embedded router TAU-2M.IP: 2xFXS, 1xWAN, 1xLAN, 1xUSB, SIP	
TAU-4M.IP	Subscriber VoIP gateway with embedded router TAU-4M.IP: 4xFXS, 1xWAN, 1xLAN, 1xUSB, SIP	

Related software

ACS-CPE-256	ACS-CPE-256 option of Eltex.ACS system for Eltex CPE autoconfiguration: 256 subscriber devices	
ACS-CPE-512	ACS-CPE-512 option of Eltex.ACS system for Eltex CPE autoconfiguration: 512 subscriber devices	
ACS-CPE-1024	ACS-CPE-1024 option of Eltex.ACS system for Eltex CPE autoconfiguration: 1024 subscriber devices	

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About company

Eltex company is a leading Russian developer and manufacturer of telecommunication equipment with 25 years of history. Integrity of solutions and seamless integration capability into Customer infrastructure is a priority area of company development.