

## TAU-1M.IP/2M.IP

### Access VoIP Gateways

#### TAU-1M.IP



1xFXS 2xLAN 1xWAN 1xUSB

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

#### Home terminal

**TAU-1M.IP** is access gateway with built-in router. The device has FXS port for connecting analogue telephone, 2 LAN 10/100 Base-T ports for connecting TV or Bet-Top-Boxes. And facsimile sets to IP network. Terminal connection to operator's network is through WAN 10/100Base-T. USB-port is for HDD or printer connection.

#### OPTOKON.ACS (TR-069) management system

OPTOKON.ACS autoconfiguration system is implemented on the basis of TR-069 protocol, provides an operator with a convenient functionality for controlling SW versions and configuration of subscriber's devices TAU-1M.IP and TAU-2M.IP as well as different CPE OPTOKON and other vendors. OPTOKON.ACS automatically loads an individual configuration into a device in accordance with the subscriber's account data. A function of intellectual upgrading SW versions works successively with the devices on the network by renewing the groups of devices according to assigned queue discipline. System Eltex.ACS is provided with North Bound Interface (NBI) for coupling with OSS complexes.

#### Ease of use

User-friendly control interface as well as supporting means of group-type automated control on the basis of TR-069 and DHCP (DHCP-autoprovision) protocols ensure ease of using unlimited number of TAU-1M.IP gateways on the operator's network.

#### TAU-2M.IP



2xFXS 1xLAN 1xWAN 1xUSB

- *High Quality Voice*
- *Faxing*
- *3G/4G-Channel Reservation*

#### Office terminal

**TAU-2M.IP** is access gateway intended for connecting analogue telephone and facsimile sets to IP network. The service is provided via a convergent data transmission network, where different IP-PBX can be used.

#### Faxing

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

#### High Quality Voice

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

#### Channel Reservation

In case of loss of basic connection to Internet network there is a possibility to automatically switch over to a standby 3G/4G channel. In case of shut down of a standby channel, calls between subscribers still can be switched over.

## Technical features

### Interfaces

- 1 FXS port for TAU-1M.IP
- 2 FXS ports for TAU-2M.IP
- 1 WAN 10/100Base-T port
- 2 LAN 10/100Base-T ports for TAU-1M.IP
- 1 LAN 10/100Base-T ports for TAU-2M.IP
- 1 USB 2.0 port

### VoIP protocols

- SIP

### Voice codecs

- G.711 a-law,  $\mu$ -l
- G.723.1
- G.729 (A/B)

### Faxing

- T.38 UDP Real-Time Fax
- G.711 (a-law,  $\mu$ -law), pass-through

### Voice standards

- VAD (Voice Activity Detection)
- CNG (Comfort Noise Detection)
- AEC (Acoustic Echo Cancellation, G.168 recommendation)

### DTMF

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

### Value Added services

- Call Hold
- Call Transfer
- Notice of new call arrival (Call Waiting)
- Calls forwarding on busy (CFB)
- Calls forwarding No Reply (CFNR)
- Calls forwarding unconditionally (CFU)
- Caller ID
- Calling Line Identification Restriction
- Hotline/Warmline
- Call Group
- 3-Way Conference

### VoIP Functionality

- Internal connections switching
- Operating without SIP-server
- Flexible numbering plan
- Parameters profile for ports
- Settings using without rebooting
- IMS (3GPP TS 24.623) support for services management  
Hold, CW, 3Way-conference, Hotline)

### Quality of service (QoS)

- Diffserv and 802.1p priority assignment for SIP and RTP
- Bandwidth redundancy

### Types of connections

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

### Network functions

- "bridge" or router mode
- NAT
- Static routing
- VLAN per service (Internet, VoIP, IPTV)
- IGMP
- Port forwarding
- Firewall
- 3G-router mode
- UpnP

### Management

- WEB (Multilingual)
- Telnet
- FTP
- Syslog
- SSH
- TR-069 (recommended to work with Eltex.ACS server)
- DHCP-autoprovisioning
- SNMP (Configuration and Monitoring)

### Security

- Username and password verification
- Firewall
- Access rights delimitation admin / user

### USB-port

- USB-drive connection with FAT/FAT32/EXT2/EXT3/NTFS filesystems
- USB 3G/4G modem connection - operating in 3G/4G router mode connection redundancy via 3G/4G channel

### Main Technical Features

- Realtek 8954C processor
- SDRAM 64 MB
- Flash 8 MB
- OC Linux

### Physical characteristics

- Power adaptor: 12V DC, 1A
- Power consumption: up to 5 W
- Temperature: +5 °C to +30 °C
- Humidity: 80% max.
- Dimensions: 112x100x32 mm, desktop case

Software current version 1.13.0



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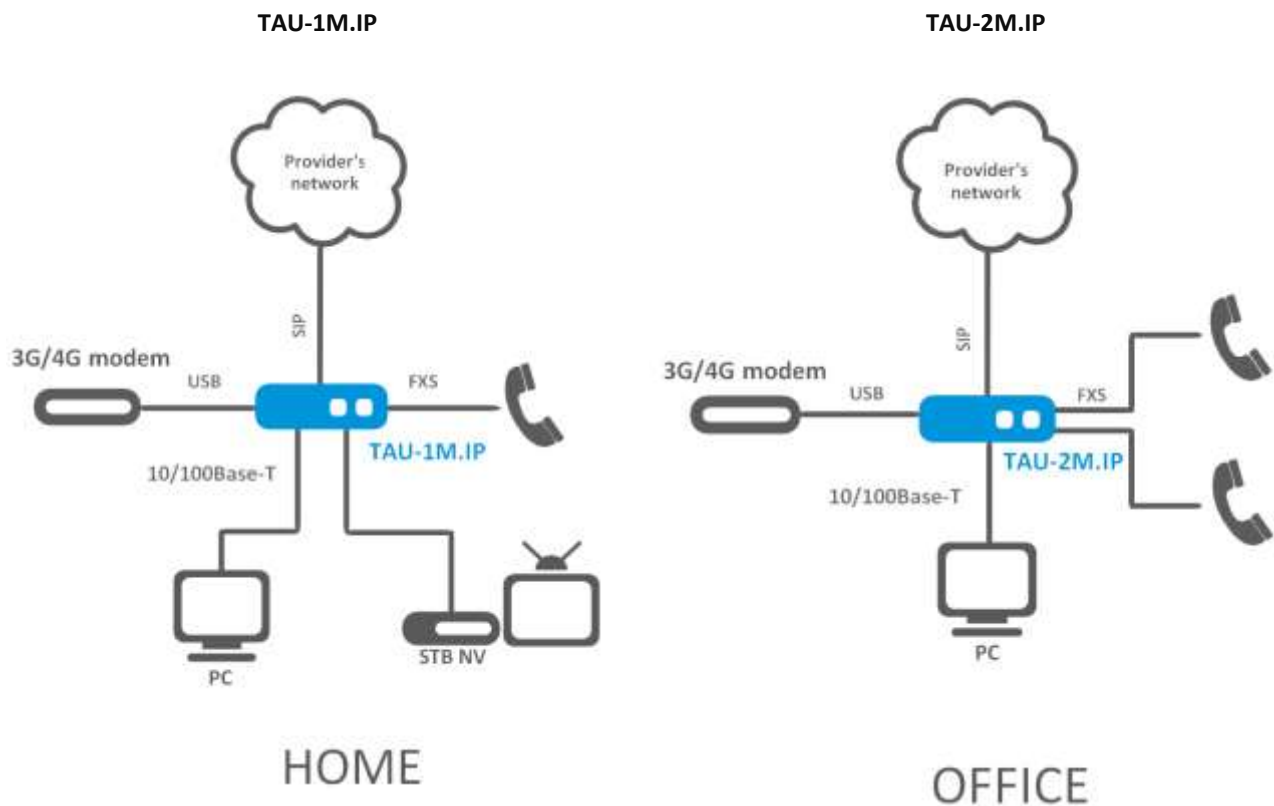
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### Scheme of using



### Ordering Code:

Product name	Description	Image
<b>TAU-1M.IP</b>	VoIP subscriber gateway with built-in TAU-1M.IP router: 1xFXS, 1xWAN, 2xLAN, 1xUSB, SIP	
<b>TAU-2M.IP</b>	VoIP subscriber gateway with built-in TAU-2M.IP router: 2xFXS, 1xWAN, 1xLAN, 1xUSB, SIP	
<b>Software</b>		
<b>ACS-CPE-256</b>	ACS-CPE-256 option of OPTOKON system. ACS system for auto configuration 256 OPTOKON CPE devices	
<b>ACS-CPE-512</b>	ACS-CPE-512 option of OPTOKON system. ACS for auto configuration 512 OPTOKON CPE subscriber devices	
<b>ACS-CPE-1024</b>	ACS-CPE-1024 option of OPTOKON system. ACS for auto configuration 1024 OPTOKON CPE subscriber devices	