

CATALOG'20



Russian designer and manufacturer
of communication equipment



- **28 years of experience** in designing and manufacturing telecommunication equipment
- More than **750 employees**
- **14 software development laboratories**
- **2 industrial complexes** in Novosibirsk (Russia) and Almaty (Kazakhstan)
- **More than 100 partner companies** in Russia, CIS, Europe, Asia and the Middle East
- **More than 1500 client companies**

1

Development

- Hardware
- Software

2

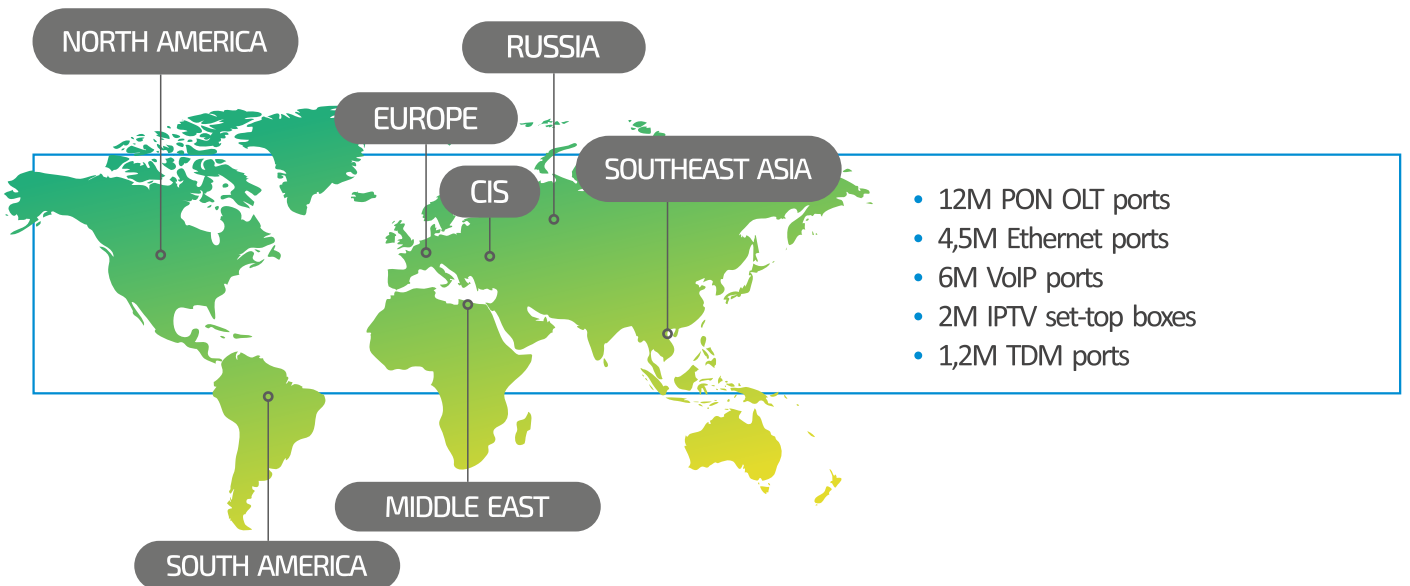
Manufacture

- Surface-mount technology
- Through-hole technology
- Assembling
- Software installation
- Testing of serial production equipment

3

Maintenance

- Technical support
- Service center
- Software updating
- Repair





IP PHONE

Under development

	VP-15(P)	VP-20(P)	VP-50(P)
Device image			
OS	Linux	Linux	Android
SIP accounts	2	6	6
Display	monochrome 128x64 px	color 4,5"	touch-screen 7"
Video camera			2 MP HD
Wireless interfaces			Wi-Fi 802.11ac, Bluetooth
Features		<ul style="list-style-type: none"> • Support for expansion modules • Support for path establishment between FXS and FXO ports in case of power failure 	

FEW PORT VoIP GATEWAYS

	TAU-1M.IP	TAU-2M.IP	TAU-4M.IP	TAU-8.IP
Device image				
FXS	1	2	4	8
LAN	2	1	1	
WAN	1	1	1	1
USB 2.0	•	•	•	•
3G/4G redundancy	•	•	•	•

SUBSCRIBER GATEWAYS

	TAU-16.IP	TAU-24.IP	TAU-32M.IP	TAU-36.IP	TAU-72.IP
Device image					
FXS/FXO/E1	16 FXS	24 FXS	up to 32 FXO/FXS	36 FXS	72 FXS
VoIP protocols	SIP, SIP-T, H.323, H.248/Megaco				
Features	<ul style="list-style-type: none"> • Current and voltage protection; • Possibility to measure line parameters; • PBX functionality; • Redundant SIP proxy 				

TRUNK GATEWAYS

	SMG-2	SMG-4	SMG-1016M	SMG-2016	SMG-3016
Device image					
Processor	Single-Core ARMv7	Single-Core ARMv7	Single-Core ARMv5	Quad-Core ARMv7	Quad-Core ARMv8 64bit
Interfaces	<ul style="list-style-type: none"> • 1 port of 1GE (RJ-45) • up to 2 ports of E1 (RJ-48) • 1 console port of RS-232 (RJ-45) • 1 USB 2.0 port 	<ul style="list-style-type: none"> • 1 port of 1GE (RJ-45) • 4 ports of E1 (RJ-48) • 1 console port of RS-232 (RJ-45) • 1 USB 2.0 port 	<ul style="list-style-type: none"> • 3 ports of 1GE (RJ-45) • 2 ports of 1G (SFP) • 16 ports of E1 (CENTRONICS-36) • 1 SATA port for SSD • 1 console port of RS-232 (DB9M) • 1 USB 2.0 port 	<ul style="list-style-type: none"> • 2 ports of 1GE (RJ-45) • 2 combo ports of 1G (SFP, RJ-45) • 16 ports of E1 (RJ-48) • 2 SATA HDD 2,5" slots • 1 console port RS-232 (RJ-45) • 1 USB 2.0 port 	<ul style="list-style-type: none"> • 2 ports of 1GE (RJ-45) • 2 combo ports of 1G (SFP, RJ-45) • 1 port of 1G (RJ-45) OOB • 16 ports of E1 (RJ-48) • 2 SATA HDD 2,5" slots • 1 console port RS-232 (RJ-45) • 2 USB 2.0 ports
SIGTRAN/MGCP/H.248			•	•	•
Synchronization	from E1 flow	from E1 flow	<ul style="list-style-type: none"> • from E1 flow • from analog source 	<ul style="list-style-type: none"> • from E1 flow • from analog source, 2 synchronous inputs/outputs 	<ul style="list-style-type: none"> • from E1 flow • from analog source, 2 synchronous inputs/outputs



VoIP

TRUNK GATEWAYS

	SMG-2	SMG-4	SMG-1016M	SMG-2016	SMG-3016
Capacity	<ul style="list-style-type: none"> up to 64 VoIP channels up to 2 E1 flows 	<ul style="list-style-type: none"> up to 128 VoIP channels 4 E1 flows 	<ul style="list-style-type: none"> up to 768 VoIP channels up to 16 E1 flows 	<ul style="list-style-type: none"> up to 768 VoIP channels up to 16 E1 flows 	<ul style="list-style-type: none"> up to 768 VoIP channels up to 16 E1 flows
Redundancy			<ul style="list-style-type: none"> Via IP Via E1 Reduced reserve 1+1 	<ul style="list-style-type: none"> Via IP Via E1 Reduced reserve 1+1 	<ul style="list-style-type: none"> Via IP Via E1 Reduced reserve 1+1
Features and capabilities	<ul style="list-style-type: none"> VoIP protocols: SIP, SIP-T/SIP-I TDM protocols: SS7, DSS1 (Q.931) Media stream transcoding DTMF support QoS: IP DiffServ; 802.1p CDR files creation RADIUS authorization and accounting STUN, public IP, NAT comedia support WEB, CLI, SNMP control Static and dynamic firewall Device access rights differentiation 				

ELTEX IP PBX

	SMG-200	SMG-500	SMG-1016M	SMG-3016	ECSS-10
Device image					
Maximum-subscribers number	200	500	2000	3000	100 000+
Scalability					•
Redundancy			Via IP Via E1 Reduced reserve 1+1	Via IP Via E1 Reduced reserve 1+1	High-availability cluster
Interfaces					
E1		4	up to 16	up to 16	Defined by the number and capacity of connected trunk gateways
FXS/FXO	up to 16				Defined by the number and capacity of connected subscriber access gateways
Services					
Virtual PBX					•
FMC	•	•		•	
Call center with operator/supervisor workstation					•
Call queue	•	•	•	•	•
Subscriber personal account	•	•			•
Selector communication					•
Conversation recording	•	•	•	•	•
Voice mail	•	•	•	•	•

SESSION BORDER CONTROLLERS

	SBC-1000	SBC-2000
Device image		
Load	up to 500 connections	up to 2000 connections
Redundancy by IP	Reduced reserve 1+1	Reduced reserve 1+1
DoS attacks protection	•	•
Features and capabilities	<ul style="list-style-type: none"> network taxonomy hiding ports scanning protection static and dynamic firewall SIP flood protection client applications filter RADIUS authorization 	