Techroutes
N E T W O R K

TX-20

VoIP PBX for SME

Product Overview

TX-20 is an IP telephony system, used to help small and medium-sized enterprises establish a convenient and high-efficient communication way.

As a converged platform offering diverse connectivity to all networks like FXS and VoIP/SIP, supporting up to 20 users with 24 concurrent calls. TX-20 allows businesses take advantage of state-of-art technology and enterprise class features.

TX-20 supports VPN, encryption and security strategies, and thus ensures secure communication. It can be widely used in small and medium-sized call centers, enterprise branches to improve work efficiency and save communication cost.

Key Features

- Built-in analog-gateway modules and storage for recording, FoIP and voicemail
- Supports Maximum 24 IP Trunks
- Headquarters and branch-office communications through SIP-based tie trunks
- Mobile extensions keep you connected anywhere and anytime
- Enriched with features like Click to Call, CDR and Call recording
- XML/HTTP-based RESTful API for third-party applications
- Cloud based management
- Supports Element Management Systems (TR-069,SNMP)
- Add-on middleware for hospitality applications
- Peer-to-peer communication between IP-PBX and SIP terminals across NAT without the need for static IP addresses, DDNS or port mapping on the access route

Protocol Support

Call Control
SIP/UDP,SIP/TCP(RFC3261),IMS(3GPP),MGCP(3435)
Network
Telnet, SSH, HTTP, HTTPS, DHCP/PPPoE client, DNS(A/SRV record), STUN, OpenVPN client, 802.1X

Media Processing

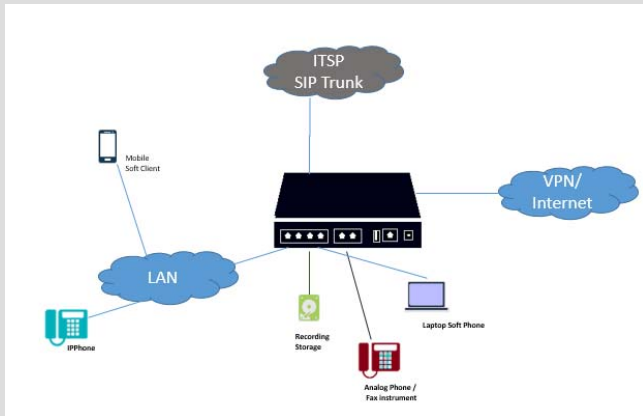|	
Caller Id	Bellcore Type 1&2, ETSI, BT, NTT, and DTMF-based CID
Codec	G.711 (a/µ), G.729a, G.722.2, G.722
DTMF	In-band audio, RFC2833, SIP-INFO
Hook-Flash	Local processing, RFC2833, SIP-INFO
FoIP	T.38, G.711 pass-through T.38 compliant Group 3 Fax Relay Maximum fax rate of 33,600 bps (T.38)
Disconnect Modes	Polarity reversal, Busy tone detection, Loop current
Voice Quality	Echo cancellation (G.168-2004), Jitter buffer, Silence suppression (VAD, CNG), PLC

Voice

Auto Attendant, Multilevel IVR, Queue, DID
Speed dial, Outgoing route selection, Least cost routing, Automatic route selection
Call transfer, Call forward, Do not disturb, Barge, Silent monitoring, Simplified DISA
Call recording (total, on demand)
MWI (polarity reversed, FSK, high voltage)
IMS, Multiple SIP servers, Skype Connect
Busy Lamp Field

Security

User definable ports for signaling and RTP, HTTP and HTTPS
Access Control List White listing and Black listing
Prohibition on outgoing dialing by IP extensions on public network, User-Agent authentication, Registration password cracking protection
Web GUI Login protection
Encrypted Password / PIN
Three level of Security settings

VOIP

Environmental

- CPU: Dual Core, 880MHz
- RAM:256 MB
- Flash:16 MB , Internal USB Flash drive 16GB
- DC Power input: 12 VDC/1.5A
- Power Consumption 9 W
- Operating Temperature. 0 ℃~ 40 ℃
- Storage Temperature: -40 ℃~70 ℃
- Humidity: 10%-90% Non-Condensing
- Mounting Desktop/Rack
- Unit Weight: 0.72kg

Provisioning, Administration and Maintenance

- TR069 Management (TR069,TR-104,TR-106), SNMP
- API (XML/HTTP)
- Auto Provisioning via FTP/TFTP/HTTP/HTTPS, DHCP option 66, redirection
- 8-level log management, Syslog, Internal USB flash drive (16 GB)
- Port capture, Packet capture for data capture
- Bulk import/export, Factory default resetting
- Call status and history, Device status monitoring and statistics collection
- Status performance monitoring or reporting. Status/performance alarms
- Voicemail to Email

Add-ons

- Support NAT traversal, Uniform dial plan, Call forward, Call transfer. Outbound trunk sharing, Three-way calling, Attendant on remote site.
- QoS: DiffServ, TOS, 802.1p/Q VLAN tagging
- Local recording, Voicemail, Customer information, User-uploaded IVR file

VOIP