

# Yeastar TA Series Analog VoIP Gateways



Yeastar TA Analog VoIP Gateways are cutting-edge products that connect legacy telephones, fax machines and PBX systems with IP telephony networks and IP-based PBX systems. Featuring rich functionalities and easy configuration, TA is ideal for small and medium enterprises that wish to integrate a traditional phone system into IP-based system. TA helps them to preserve previous investment on legacy telephone system and reduce communication costs significantly with the true benefits of VoIP.

## Benefits

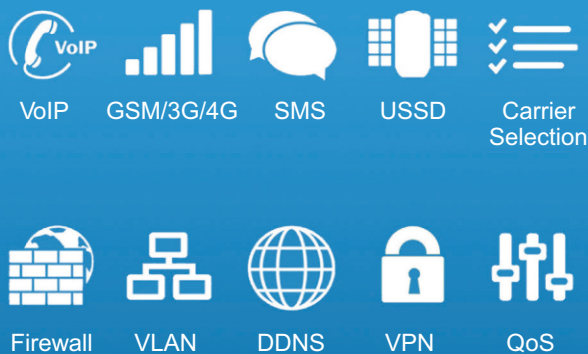
- 4/8/16/24/32 FXS ports or 4/8/16 FXO ports
- Fully compliant with SIP and IAX2
- Flexible calling rules
- Reliable fax performance with T.38
- Provides high-quality voice compression with industry standard codecs
- Line echo cancellation for 8, 16, 32, 64 or 128 ms echo delays
- Web-based GUI for easy configuration and management
- Excellent interoperability with a wide range of legacy and IP equipment

# Yeastar TA Series

	TA400/800	TA1600/2400/3200	TA410/810	TA1610
Interfaces				
Ports	4/8 FXS Ports	16/24/32 FXS Ports	4/8 FXO Ports	16 FXO Ports
Telephony Interfaces	RJ11	RJ11 and RJ21 50-pin Telco Connectors	RJ11	RJ11 and RJ21 50-pin Telco Connectors
Network Interfaces	1 10/100BASE-T Ethernet			
Indicators	Ports Status and Activity LEDs			
Media Processing				
Protocol	SIP (RFC3261), IAX2			
Transport	UDP, TCP, TLS, SRTP			
Codec	G.711 (alaw/ulaw), G.722, G.723, G.726, G.729A/B, GSM, ADPCM			
Voice Capability	ITU-T G.168 LEC Echo Cancellation, Dynamic Jitter Buffer, VAD, CNG, PLC			
DTMF Mode	RFC2833, SIP Info, In-band			
Fax	T.38 and Pass-through		T.30	
QoS	DiffServ, ToS, 802.1 P/Q VLAN tagging			
Telephony Features				
Call Handling	3-way Conference, Attended and Blind Transfer, Call Forward, Caller ID Display, Call Waiting, CDR, Direct Caller ID Calling, Distinctive Ringtone, Do Not Disturb, Flexible Dialing Plan, Hunting Groups, Hotline, MWI, Speed Dial		Programmable AC Impedance, Hangup Detection, Answer Detection, Caller ID Detection	
Security/ IP Services				
Firewall	Built-in Firewall, IP Blacklist, Attack Alert			
Network	DHCP, DDNS, OpenVPN, Static Route, VLAN			
Nat Traversal	Static NAT, STUN			
Network Protocol	FTP, TFTP, HTTP, HTTPS, SSH			
Management				
Protocol	RADIUS, TR-069	SNMP, RADIUS, TR-069	TR-069	TR-069
Provisioning	Web GUI, Auto Provisioning, Backup and Restore, Firmware Upgrade by HTTP/TFTP			
Configuration	Remote Management, Packet Capture, System Logs, Voice Menu for FXS Gateways Basic Configuration, API			
Connectivity				
Signaling	FXS Loop Start, FXS Kewl Start		FXO Loop Start, FXO Kewl Start	
Caller ID	BELL202, ETSI (V23), NTT (V23-Japan), and DTMF-based CID			
Disconnect Methods	Busy Tone, Polarity Reversal			
Short & Long Haul	3REN, up to 1.5 km on 24 AWG wire		—	
Physical				
Power	12V, 1A	AC 100-240V (12V 5A)	12V, 1A	AC 100-240V (12V 5.5A)
Dimensions (L × W × H) (mm)	200 × 137 × 25	440 × 250 × 44	200 × 137 × 25	440 × 250 × 44
Operation Temperature	0°C to 40°C, 32°F to 104°F	0°C to 45°C, 32°F to 113°F	0°C to 40°C, 32°F to 104°F	
Storage Temperature	-20°C to 65°C, -4°F to 149°F			
Humidity	10-90% non-condensing			
Mounting	Desktop, Wall-mount	Desktop, Rack-mount	Desktop, Wall-mount	Desktop, Rack-mount
Compatibility				
Softswitch and IP-PBX	Interoperable with a wide range of IPPBX and softswitches Certified by BroadSoft			

# Yeastar TG Series

## VoIP GSM/3G/4G Gateway for Cost Reduction



Yeastar TG is a series of VoIP GSM/3G/4G gateway connecting GSM or 3G WCDMA or 4G LTE network to VoIP network directly and can support two-way communication: GSM/3G/TG to VoIP or VoIP to GSM/3G/4G. It is the best solution ever to connect IP-based telephone systems, and softswitches to GSM/3G/4G network; and also the best fallback solution when landline goes down.

### Benefits



#### Mobile networks

Link up PBX systems with GSM or 3G WCDMA or 4G LTE networks



#### Cost saving

Save phone bills tremendously with mobile-to-mobile calls and SIP trunks



#### SMS

Send and receive SMS messages via Web interface and support bulk SMS



#### Back up

Work as a cost-effective backup when the landline network goes down



#### Easy to install

Everything can be easily set up in the Web based management



#### Easy to integrate

High compatibility with mainstream IP-PBX and softswitch

## Interface

- TG100: 1 GSM or 3G Channel\*
- TG200: 2 GSM or 3G or 4G Channels\*
- TG400: 4 GSM or 3G or 4G Channels\*
- TG800: 8 GSM or 3G or 4G Channels\*
- TG1600: 16 GSM 3G or 4G Channels\*
- TG100, TG200, TG400:  
1 10/100 Mbps Ethernet Interface
- TG800, TG1600:  
2 10/100 Mbps Ethernet Interfaces
- Antenna Splitter (4 in 1 antenna): TG400, TG800, TG1600

## Voice Processing

- Protocol: SIP, IAX2
- Transport: UDP, TCP, TLS, SRTP
- Voice Codec: G.711 (alaw/ulaw), G.722, G.726, G.729A, GSM, ADPCM, Speex
- Echo Cancellation: ITU-T G.168 LEC
- DTMF Mode: RFC2833, SIP INFO, In-band
- SIP Server for IP Phones Included
- SIP Response Code Switch
- Call Progress Tone Generation
- 1 Stage/2 Stage Dial

## System Features

- Mobile Ports Groups
- VoIP Trunk Group
- Incoming /Outgoing Routing rules
- White List and Black List
- Hotline
- AutoCLIP
- Call Duration Limitation
- Call Transfer
- Call Waiting
- Call Back
- Call Detail Record (CDR)
- Call Status Display
- NTP
- IP Blacklist
- Network Attack Alert
- Packet Capture
- System Logs

## Mobile Features

- GSM Frequency: 850/900/1800/1900MHz
- WCDMA Frequency: 850/1900MHz, 850/2100MHz, 900/2100MHz
- 4G LTE Band: depends on the module type
- VoLTE if the Carrier Supports
- SMS Sending and Receiving
- Send Bulk SMS
- SMS Center
- Gain Adjustment
- USSD
- PIN Modify
- Carrier Selection: Auto/Manual
- Talk Time Alarm
- Caller ID/CLIR
- Open API for SMS and USSD

## Network & Management

- Network Protocol: FTP, TFTP, HTTP, SSH
- NAT Traversal: Static NAT, STUN
- Static Route
- OpenVPN
- Firewall
- VLAN
- QoS/ToS
- DDNS
- Configure Backup/Restore
- Firmware Upgrade by HTTP/TFTP
- Web based Configuration

## Physical

Model	Size (mm)	Power Supply
TG100	110x70x24	DC 12V, 1A
TG200	213x160x44	AC 100-240V
TG400	213x160x44	AC 100-240V
TG800	340x210x44	AC 100-240V
TG1600	440x280x44	AC 100-240V

- Operation Range: 0°C to 40°C, 32°F to 104°F
- Storage Range: -20°C to 65°C, -4°F to 149°F
- Humidity: 10-90% non-condensing

\*Depends on which type of network you order.

# Yeastar TE Series E1/T1/BRI VoIP Gateway



Yeastar TE100/200 offers SMBs cost effective additions to legacy telephone systems to bring the true benefits of VoIP. TE100/200 is a single or dual port VoIP E1/T1/J1 gateway (VoIP to E1/T1/J1, and E1/T1/J1 to VoIP) that supports up to 30 or 60 concurrent calls. It's designed to bridge the gap between E1/T1/J1 and VoIP networks. Integrating TE100/200 into an existing network will allow inexpensive communication via SIP trunking. Also, it could connect VoIP systems with E1/T1/J1 service from legacy carriers.

## Benefits

- Software configurable E1/T1/J1 ports
- Support PRI, MFC R2, SS7, E&M
- Easy-to-navigate GUI
- Cost-effective call routing
- Simple installation and management
- Interoperable with Elastix and Skype for Business
- Compatible with various ISDN PBX, IP-PBX, and softswitch
- Low power consumption for your green office



## Physical Interfaces

- E1/T1/J1 port: 1 or 2
- Dual Base-T connectors
- TE100: 10/100 Mbps
- TE200: 10/100/1000 Mbps
- USB port:1

## Voice Processing

- Protocol: SIP(RFC3261)
- DTMF: RFC2833, SIP Info, In-band.
- Codec: G711a, G711u, G.722, G.726, G.729a, GSM, Speex, ADPCM
- Transport: UDP, TCP, TLS, SRTP
- Echo Cancellation: ITU-T G.168 LEC

## Telephony

- Blacklist
- Call detail records
- Call duration limitation
- Caller ID
- Caller ID prefix
- Call routing rules
- SIP trunk support
- SIP peer mode
- SIP Registrar for IP phones
- T.38 fax
- Trunk group

## Signalling

- Support PRI, MFC R2, SS7, E&M
- PRI switch types: E1 ISDN, nation, Q.SIG
- CAS: MFC R2 (Argentina, Brazil, China, Czech Republic, Colombia, Ecuador, Indonesia, ITU, Mexico, Philippines, Venezuela)
- SS7: ITU, ANSI, China

## Internet

- DDNS
- IP Blacklist
- NAT Traversal
- QoS/ToS
- PPPoE
- Static Route

## System

- Backup and restore
- Custom prompts
- E1/T1/J1 diagnostics
- Firmware upgrade by HTTP/TFTP
- Packet Capture Tool
- System logs
- Security: Firewall, TLS, SRTP, HTTPS
- Web based configuration

## Applications

- Connect legacy PBX to VoIP services
- Connect IP-PBX to ISDN trunkings
- ISDN connectivity for Contact Center
- Connect legacy PBX to IP-PBX at the branch office
- Interconnect multiple PABX to realize free inter-office calls

## Physical

- Dimensions: 213x160x44 mm
- Power Supply: AC 100-240V (12V 2A)
- Operation Range: 0°C to 40°C, 32°F to 104°F
- Storage Range: - 20°C to 65°C,-4°F to 149°F
- Humidity: 10-90% non-condensing