

VoIPBox^{BRI}

VoIP gateway for up to 8 BRI interfaces



- 4/8/16 channel ISDN BRI VoIP gateway
- Toll-grade voice compression
- High precision clock supporting DECT telephony and T.38 fax-transmission
- Integrated SIP server for remote survivability and emergency break-out
- Advanced Least Cost Routing
- QoS and traffic-shaping support
- PSTN backup (lifeline support)
- Supports auto-provisioning and centralized system management

Migrate to VoIP and protect your investment

The VoIPBox BRI provides you with a complete features suite to meet all your requirements from the latest VoIP media gateway technology. The TELES VoIPBox BRI enables service providers focusing on business customers to offer an attractive business trunking service while protecting the customer investment in existing ISDN PBX. Customers who have already made the decision to use IP PBX can continue to use their existing ISDN phones whilst protecting their investment and maintaining the same user experience with the former PBX.

Excellent voice quality from a feature rich product

Using top quality DSP technology we provide our customers with high voice and fax quality. Hereby high precision clock generation offers boundless usage of DECT telephony and other sensible terminal equipment. Even when using voice compression to save network bandwidth, customers using low band infrastructure can benefit from sophisticated RTP multiplexing. An integrated call back server, SIP registrar, ISDN clear channel as data relay, and DSL router are just a few of the features provided as part of the standard feature set.

LCR savings and secure back-up

Save money on every phone call using the VoIPBox BRI LCR (Least Cost Routing) feature which automatically identifies the least expensive route to each destination, whether it is over a standard fixed-line network or over the Internet. If required, AOC (Advice of Charge) generation can be used to support customer or legal requirements.

Remote survivability

Besides superior voice quality, the VoIPBox BRI acts as a SIP registrar and location server, enabling SIP devices to register on the box and maintain service even when the IP network is not available.

Simple installation and sophisticated management

TELES VoIPBox BRI is supported with multiple management and provisioning tools to meet the requirements of multiple customers' profiles. Using the installation wizard, customers will soon have the service up and running smoothly. The comprehensive WEB management system enables you to perform all management and maintenance tasks easily. TELES field proven NMS system enables customers with a large install base to simultaneously perform management and provisioning tasks on multiple boxes.

CAPABILITIES

Scalability	4/8/16 concurrent calls Up to 8 BRI
VoIP codecs	G.711, G.723, G.726, G.728, G.729, GSM, iLBC
Fax support	T.38, fallback to G.711
Echo cancellation	G.168 – 2002, 128 ms tail length
ISDN data call	Clear channel (RFC 4040)
DTMF	RFC 2833, SIP/H.323 info, inband
VoIP quality	Configurable ToS, Diffserv, VLAN Silence suppression, VAD, CNG QoS alternative routing based on ASR, fraction lost, jitter, and roundtrip delay. Traffic shaping Dynamic PSTN fallback (IntraStar patent)
Call routing	Time-dependent routing Multilevel alternative routing 5000 routing entries ENUM support Database managed routing Support for multiple gatekeepers, H.225 (v4) Support for multiple registrars Overlap/en-bloc conversion RFC 3578 Digit manipulation Black/white list
Advanced	Integrated SIP registrar and location server Life line functionality: continuous PBX to PSTN connectivity in case of power failure AOC generation (AOC-D, AOC-E) Support for call forwarding (ISDN–SIP interworking) Integrated callback/two-stage-dialing server Integrated DSL router (PPPoE) RTP multiplex bandwidth reduction STUN client Symmetric RTP (COMEDIA) Radius support

PROTOCOLS

ISDN	DSS1 (Q.931, national variants), Q.SIG-BC TE/NT, PP/PMP
VoIP	SIP (RFC 3261) H.323 (v4)

SYSTEM MANAGEMENT

Remote access via IP or ISDN data call with TELES NMS or GATE Manager
Web-based management
Installation wizard
SNMP (alarm management)
Call Detail Records (CDRs)

CONNECTION SPECIFICATIONS

ISDN	2/4/8 × BRI, RJ-45 configurable as TE or NT
Ethernet	2 × Ethernet 10/100 Base-T RJ-45

PHYSICAL PARAMETERS

Size (W × H × D)	280 mm × 38 mm × 138 mm
Material	ABS
Mounting	Desktop, Wall
Power supply	Wall power supply, 12 VDC, 1.6 A

ENVIRONMENTAL CONDITIONS

Temperature	+5°C to +40°C
Humidity	5 % to 80 % (non-condensing)

CERTIFICATES

EMC, Safety, CE

	VoIP-channels	BRI-Ports
VoIPBox BRI-2	4	2
VoIPBox BRI-4	8	4
VoIPBox BRI-8	16	8
VoIPBox BRI-2 5ppm	4	2
VoIPBox BRI-4 5ppm	8	4
VoIPBox BRI-8 5ppm	16	8



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