

# VoIPBOX<sup>PRI</sup>

VoIP gateway for up to 6 PRI interfaces

The VoIPBOX PRI is a fully-featured VoIP gateway designed for corporate customers and small carriers.



- 16/30/60/120/180 channel ISDN PRI VoIP gateway
- Toll-grade voice compression and T.38 fax support
- Integrated SIP server for remote survivability and emergency break-out
- Outstanding Least Cost Routing (LCR)
- QoS and traffic shaping support
- Supports auto-provisioning and centralized system management
- PSTN backup (lifeline support)

#### Cost Effective Migration to VoIP

Maintain your current PBX infrastructure. The VoIPBOX PRI installs between the PBX and PSTN and connects your current PBX – as is – to the Internet. Plus, VoIPBOX PRI's premium set of features ensures complete compatibility with your current telephone equipment and total interoperability with all third-party VoIP equipment. Your infrastructure backbone remains and so does the investment represented by the company's contact information.

#### LCR Savings and Secure Back-up

Save money on every call. VoIPBOX PRI's LCR (Least Cost Routing) features automatically identify the least expensive route to each destination, whether that is over a standard fixed-line network or over the Internet. Plus, VoIPBOX PRI's IntraStar technology provides transparent fallback to the PSTN if there is packet loss or a bottleneck on the IP network.

#### Sustain Dependent VoIP Networks

Protect your telephone access. If your office is disconnected from its VoIP network server, VoIPBOX PRI can route both interoffice calls and PSTN calls. IP phones continue to function thereby protecting your productivity.

#### Guaranteed Voice Quality

Ensure superior voice quality. In addition to all the standard VoIP features – like echo cancellation and silence suppression – VoIPBOX PRI's premium feature set includes the best available DSPs, traffic shaping, and multi-level fallback. Voice speech compression codecs reduce bandwidth need and RTP multiplexing enables even further bandwidth reduction.

#### Simple Installation and Sophisticated Management

In only minutes, install the VoIPBOX PRI and make your first phone-calls. Just connect the cables and the power and physical installation is complete. Then, use the VoIPBOX PRI's Quickstart tool or the integrated Web-based GUI to complete initial configuration.

To fine-tune the routing configuration, use our GATE Manager. Finally, you can use the NMS for remote provisioning of bulk installation; the VoIPBOX PRI can automatically receive updated routing files from the NMS.

# VoIPBOX PRI

## CAPABILITIES

Scalability	16, 23, 30, 46, 60, 120, or 180 concurrent calls Up to 6 PRI
VoIP codecs	G.711, G.723, G.726, G.728, G.729, GSM
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, G.729B QoS alternative routing based on ASR, fraction lost, jitter, and roundtrip delay. Traffic shaping
Call routing	Dynamic PSTN fallback (IntraStar patent) 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 AOC generation (AOC-D, AOC-E) Integrated callback/two-stage-dialing server Integrated DSL router (PPPoE) RTP multiplex bandwidth reduction STUN support Symmetric RTP (COMEDIA) Radius support

## PROTOCOLS

ISDN	DSS1 (Q.931, national variants), Q.SIG-BC, NI2, CAS/R2* E1/T1, TE/NT, CRC4/Double Frame
VoIP	SIP (RFC 3261) H.323 (v4) MGCP*, IUA*

## SYSTEM MANAGEMENT

Remote access via IP or ISDN data call with NMS or GATE Manager
HTML configuration interface
SNMP (alarm management)
CDR generation

## CONNECTION SPECIFICATIONS

ISDN	1/2/4/6 × E1/T1, 120 ohms balanced, RJ-45
Ethernet	2 × Ethernet 10/100 Base-T RJ-45

## PHYSICAL PARAMETERS

Size (W × H × D)	483 mm × 44 mm × 305 mm (1U)
Material	Sheet steel
Mounting	19" Rack
Power supply	100–240 VAC, 45 W

## ENVIRONMENTAL CONDITIONS

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

## CERTIFICATES

EMC, Safety, CE, FCC

## AVAILABLE CONFIGURATIONS

	No. of VoIP channels	No. of PRI
VoIPBOX PRI 16	16	1
VoIPBOX PRI 30	23/30	1
VoIPBOX PRI 60	46/60	2
VoIPBOX PRI 120	120	4
VoIPBOX PRI 180	180	6
VoIPBOX LCR 16	16	2
VoIPBOX LCR 30	30	2
VoIPBOX LCR 60	60	6

VoIPBOX PRI 16 to VoIPBOX PRI 180 are designed for PRI - VoIP conversion. VoIPBOX LCR also connects the PBX and the public line.



Find out more: [www.teles.com](http://www.teles.com)

# TELES

TELES AG | HEADQUARTERS

Ernst-Reuter-Platz 8

10587 Berlin

GERMANY

Phone +49 30 399 28 - 066

Fax +49 30 399 28 - 051

E-mail [sales@teles.com](mailto:sales@teles.com)

\* roadmap