# TELES.**VoIPBOX**



# **DATA SHEET**

# **CONNECTION SPECIFICATIONS**

**ISDN** 4 x BRI (S0) RJ-45; 0, 1, or 2 BRI TE;

4, 3, or 2 BRI NT

**VoIP** 8 x VoIP channels

**Ethernet** 2 x Ethernet 10/100 Base-T RJ45

Maintenance Remote access via IP or ISDN with TELES

GATE Manager, TELES.NMS, HTML, or FTP

**Power supply** Power supply unit 230VAC/12VDC, 1000mA

### PROTOCOLS AND FEATURES

**ISDN** DSS1 (Q.931), Q.SIG-BC; PP or PMP

**VoIP** SIP (RFC 3261), H.323(v4)

VolP/Media gateway functionality

STUN client

Support for multiple gatekeepers, H.225(v4)

Support for multiple registrars RTP multiplex bandwidth reduction

**ENUM** client

Echo cancellation G.168–2000

Silence suppression
Comfort noise generation
Ring tone generation
Configurable ToS, Diffserv
SIP registrar / location server

**Codecs** G.711, G.723, G.726, G.728, G.729,

GSM, iLBC, Fax T.38

**DSL** Integrated DSL router

PPPoE, PPTP

**SNTP** Version 2 (mandatory for correct data/time

generation)

**SNMP** Alarm management

**System** Firmware & configuration remotely upgradeable

# **IP SECURITY**

Firewall IP, MAC, UDP, and TCP filter
Telnet, FTP, HTTP Username and password
Remote access Username and password

# **ROUTING**

- 5000 routing entries
- Time-dependent routing
- Multilevel alternative routing
- Multiple VoIP routing profiles
- Call-by-call
- Preselection
- AOC generation (AOC-D, AOC-E)

### ROUTING (cont'd)

- Dynamic PSTN fallback (IntraSTAR® patent)
- Traffic shaping

#### QoS alternative routing:

Quality criteria for disabling VoIP peer for a defined amount of time:

- ASR
- Round trip delay
- Jitter
- Fraction lost

After the defined time expires the default VoIP peer is active again.

#### **REQUIRED BANDWIDTH**

Table shows required bandwidth for pure voice data, including IP, UDP, RTP header (40Byte/Packet), except silence suppression

Codec	Framesize	RTP Multiplexing	1 Call (kbit/s)	4 Calls (kbit/s)	8 Calls (kbit/s)
G.729	20ms		24.0	96.0	192.0
G.729	80ms		12.0	48.0	96.0
G.729	20ms	X	20.4	44.4	68.4
G.729	80ms	X	11.1	35.1	59.1
G.711	20ms		80.0	320.0	640.0
G.711	80ms		68.0	272.0	544.0
G.711	20ms	X	76.4	268.4	524.4
G.711	80ms	×	67.1	259.1	515.1

RTP multiplexing is compatible with TELES.VoIPBOX, TELES.VoIPGATE, TELES.iGATE, TELES.iSWITCH, or TELES.iXESS on the peer side.

## SUPPLEMENTARY SERVICES

**ISDN to ISDN** transparent **ISDN to SIP,** RFC 3398

**SIP to ISDN** RFC 3578, overlap sending/receiving

CLIP, CLIR, COLP, COLR

ISDN to H.323,

H.323 to ISDN

**To ISDN** AOC-D, AOC-E

#### **DTMF INBAND HANDLING**

ISDN to ISDN transparent
ISDN to VoIP,
VoIP to ISDN

#### **OPERATOR DOCUMENTATION**

# TELES.**VoIPBOX**

# DATA SHEET

# HOUSING

ABS, black Material

**Status LED** 

Mounting Desktop, wall

#### PHYSICAL PARAMETERS

Size (LxWxH) 142 x 138 x 38mm Weight approx. 300g

#### **ENVIRONMENTAL CONDITIONS**

+5°C to +45°C Temperature

Humidity 5% to 80% (non-condensing)

#### **CERTIFICATES**

EMC, Safety, CE

#### PACKAGE CONTENT

- 1 TELES. VoIPBOX
- 1 Power supply unit
- 4 ISDN BRI (S0) cables, unshielded, 2 x RJ45 plugs, 1,5m
- Ethernet cable Cat5, straight-through, 2 x RJ-45 plugs, 1,5m
- Installation brochure
- 1 Drilling jig

# **CONFIGURATION & PROVISIONING (DEFAULT)**

Port 1, 2 : DSS1, TE, Point-to-Multipoint Port 3, 4 : DSS1, NT, Point-to-Multipoint Protocol

IP address : 192.168.1.2 IP settings : 255.255.255.0 IP mask

Port 1, 2 -> Port 3, 4 and Routing Port 3, 4 -> Port 1, 2 (transparent)



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