

DTT IP/E1 Gateway TM



DTT 's IP telephony gateways deliver the quickest, simplest installation available on the market. Proprietary quality-boosting algorithms ensure the highest voice quality, while continuous operations are guaranteed because there is no single point of failure. In short, these gateways deliver superb audio quality, are easy to install and maintain, and are highly affordable.

Our unit supports ISDN PRI (E1/T1) and analog(FXS and FXO) telephony interface. All you do is plug the PBX trunk (PRI E1/T1, BRI or analog lines) into one side of the gateway, the PSTN Central Office lines into the other, and then connect the gateway to the IP network. Your existing equipment is fully leveraged, without PBX customization, and without the expense of additional lines or voice cards.

Businesses maximize savings while guaranteeing clear calls in a no-risk investment that does not require any changes in current equipment.

Best of all, employees enjoy fully transparent usage: no change in dialing habits at all. Voice quality is optimized through unique algorithms that boost Quality of Service to maximize stable clarity. Moreover, our unit is always up, with instant access to PSTN at any time, and no single point of failure.

Call Handling Features

H.323 V4 support

SIP V2 support

Dynamic protocol selection (SIP, H.323) on a call-by-call basis

Discretionary, automatic least cost routing options (carrier selection; hop-off)

Hop-on with authentication and auto-dialing support

Smart QoS-driven automatic multi-path call switching

Pass-through to user-selected PSTN destinations

Automatic call type detection voice/fax

Public, private, and abbreviated dial plan support; Rule based numbering management (RBNM)

Automatic stripping and appending of digits to dialed numbers

Discretionary, automatic hop-off support

NAT (network address translation) traversal

Voice Quality

IP TOS
Diff Serv
Bad frame interpolation

VOIP Gateway specifications

Maximum Voice Channels 4, 8, 16 4, 8 23, 46 30, 60
Telephony Interface Connection type FXS FXO T1 PRI E1 PRI
End-to-end DTMF v v v v
En-block & overlap phone v v
numbering sending support
Signaling Protocols Loop Start Loop Start Nortel DMS-100 Euro ISDN
National ISDN-2, VN6
NTT, KDD, 1TR6
QSIG (basic call) QSIG (basic call)
Hong Kong Tel
AT&T 5ESS, AT&T 4ESS
Line impedance 600 ohm 600 ohm, 900 ohm 100 ohm CEPT 120 ohm
complex
Connector type RJ-11 RJ-11 RJ-45 RJ-45

VoIP Specifications

IP Telephony Protocol Support H.323 v4
SIP v2
Dynamic selection per call
IP Transport RTP/RTCP
Voice Encoding G.711 (A-law, μ -law)
G.723.1
G.729AB
G.726/32
NetCoder ®
Voice Quality IP TOS
Diff Serv
Adaptive, dynamic jitter buffer
Line Echo Cancellation ITU G.165, ITU G.168
Multi-level error correction
Bad frame interpolation
Comfort noise generation (CNG)
Voice activity detection (VAD)/Silence Suppression
Fax Relay T.38 real-time fax protocol
LAN Interface 10/100 Base-T Ethernet auto sensing
RJ-45 connector (IEEE 802.3)
NAT traversal Supported
Multi Path Switching Supported

Power

Input Power 100-240 VAC, 50/60Hz
Power Consumption 30 Watts Maximum

Environment

Operating temperature 0-40°C (32-104°F)
Storage temperature -40-75°C (-40-167°F)
Operating humidity 10-90% non-condensing

Regulatory

Emissions EN55022:98, EN6100:3, 47CFRP15, CES-003:97
Immunity EN 55024:98
Safety EN60950, UL 60950, CSA 22.2 950
Telecommunications FCC part 68

Mechanical (Analog)

Dimensions (WxHxD) 43.7cm x 4.16cm x 25.4cm
(1U) (17.2" x 1.64" x 10")
Weight 1.8 kg (4 lbs)

Mechanical (E1/T1 PRI) (Digital)

Dimensions (WxHxD) 43.7cm x 4.16cm x 33cm
(1U) (17.2" x 1.64" x 13")
Weight 2.7 kg (6 lbs)

Configuration and Management

Browser-based configuration and monitoring application
Disconnect Signal Analyzer (analog)
SNMP support
Call detail records (CDRs)
RS-232 ports for maintenance

Security

SSH™ encryption during remote diagnostics and version updates
Authentication with IVR/internal tables, PIN, Caller ID
Embedded firewall
Voice and signaling AES encryption