

PRI Gateway

UBIQCOM UBG200 Trunk Gateway enables direct routing of calls between the fixed line ISDN and the cost-effective IP networks for capitalizing on low cost VoIP telephony. By integrating UBG200 Trunk Gateway with existing PBX / PABX telephone systems, businesses of all sizes can benefit from low-cost Voice over IP calls and achieve substantial cost savings without the high upfront costs associated with communications infrastructure changes related with the migration to VoIP.

UBG200 offering PBX/IP-PBX users a powerful telephony cost saving device and advanced flexible routing capabilities between ISDN PRI to SIP, and also can be situated between the PBX and the PSTN, saving the cost of an additional PBX E1/T1 port. It is ideally fit for various access networks of SMEs, call centers, telecom operators and large-scale enterprises



Model: No.

UBG200

Highlights

- Up to 60 simultaneous calls with 1/2 E1/T1 ports
- Support echo cancellation, DJB, CNG, VAD and QoS
- Use of existing E1/T1 ISDN PRI interface of the PBX
- Use of existing VoIP interface of the IP-PBX, Support up 512 Routes
- Maintain existing dialing habits and business communication patterns
- Built-in Web-based management, SNMP, command line interface (CLI)
- Standard ISDN compliant and Interoperable with a wide range of IP-PBXs

Physical Interfaces

E1/T1 Ports
1/2 E1/T1 Ports
Interface Type RJ48 (Impedance 120Ω)
Ethernet Interface
GE1: 10/100/1000 Base-T Adaptive
Interface GE0: 10/100/1000 Base-T
Adaptive Interface
Serial Port 1* RS232, 115200 bps

Voice Capabilities

Default codec: G.711a/μ law,
AMR G.723.1, G.729AB, iLBC
In-band G.711, RFC2833 (DTMF out-of-band), SIP INFO
Support CAS (R2, MFC/R2) và ISDN PRI (Q.921, Q.931, Q.Sig) – 30B+D(E1), NT/TE
Silence Detection
Comfort Noise
Echo cancellation (G.168 up to 128ms tail)
Adaptive Dynamic Buffer
Voice, Fax Gain Control
FAX: T.38 and Pass-through
Support Modem/POS
DTMF Mode: RFC2833/SIP Info/In-band

Environmental

Voltage stability: Load regulation = $(V_{no\ load} - V_{full\ load}) / V_{no\ load} \times 100\% \leq 5\%$
Ripple voltage: $V_{pp} \leq 150\text{ mV}$ (under 100% load across the entire input voltage range)
Power Adapter: 100-240VAC@DC12V2A
Power Consumption: 15W
Operating Temperature: 0 °C ~ 45 °C
Storage Temperature: -20 °C ~ 80 °C
Humidity: 10%-90% Non-Condensing
Dimensions(W/D/H): 227*147*39mm
Unit Weight: 1.5kg
Compliance: MTCTE

PSTN

ISDN PRI
23B+D(T1), 30B+D(E1), NT
or TE ITU-T Q.921, ITU-T
Q.931, Q.Sig
SS7 (optional)
ITU-T, ANSI, ITU
MTP1/MTP2/MTP3,
TUP/ISUP
R2 MFC (optional)
E1 Frame Type: DF/no-CRC4, MF-CRC4, MF
T1 Frame Type :
Super-frame (F12, SF)
Extended Super-frame (F24, ESF)
Line Codes:
E1: HDB3, T1: B8ZS

VoIP Protocol

SIP v2.0 (UDP/TCP/TLS), RFC3261
SDP, RTP(RFC2833), RFC3262,
RFC3263, RFC3264, RFC3265,
RFC3515, RFC2976, RFC3311
RTP/RTCP, RFC2198, RFC1889
SIP-T, RFC3372, RFC3204, RFC3398
SIP Trunk Work Mode:
Peer/Access
SIP/IMS Registration: with up to
2,000 SIP Accounts
Services: SIP trunk, Ethernet LAN
port configuration, Call routing,
Device reboot, reset
Web interface access via LAN,
Custom web access TCP port
NAT: Static/Dynamic NAT, Rport
TACACS
RADIUS

Equipment packaging

01 UBIQCOM UBG200-E1
01 2m RJ45 cable
01 AC 12V 2A adapter

Software Features

Local/Transparent Ring Back Tone
Overlapping Dialing
Dialing Rules, with up to 8000
Voice Codecs Group
Access Rule Lists
Caller/Callee Black List
Caller/Callee White List
IP Group Management
Route direction: PSTN-IP, IP-PSTN,
PSTN-PSTN, IP-IP
CPS = 15
30 PCM channels (64 kbps per channel)
/ 1 E1 stream
Support: PPPoE, DHCP, static IP
Support 60 IP routing tables.

Maintenance

Web GUI Configuration: Port Status,
Device Activity Information, CPU Usage
HTTP/HTTPS
NAT Reversal, Static/Dynamic NAT
Data Backup/Restore
PSTN Call Statistics
SIP Trunk Call Statistics
Firmware Upgrade via TFTP/Web
SNMP v1/v2/v3
IPv4/IPv6
OpenVPN, Soft Ether VPN and VPN PPTP
Server.
Network Capture
Syslog: Debug, Info, Warning, Notice
Call History Records via Syslog
IP tables
DoS/DDoS
Auto Timeout
NTP Synchronization
WEB Change Password