

MTG200 VoIP Trunk Gateway

Overview

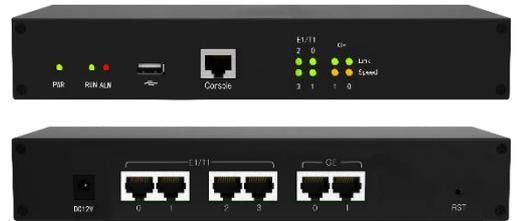
Dinstar MTG200 Trunk Gateway allows for direct routing of calls between fixed line ISDN and IP networks, providing businesses with the opportunity to take advantage of low-cost VoIP telephony. By seamlessly integrating Dinstar Trunk Gateway with existing PBX/PABX telephone systems, companies of all sizes can benefit from cost-effective Voice over IP calls and make considerable savings without the high upfront costs typically associated with upgrading their communications infrastructure to VoIP.

MTG200 offers 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.

Key Features

- Up to 120 SIP sessions
- 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

MTG200



Physical Interfaces

- E1/T1 Ports
1/2/4 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

- 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: CE, FCC
- 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)

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-CHINA
MTP1/MTP2/MTP3, TUP/ISUP
- R2 MFC (optional)
China and other 22 variants standard
- 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 Dinstar MTG200-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
- Centralized Management System