mSwitch® C-TG Compact Trunk Gateway

COMPACT FORM FACTOR SAVES COST AND SPACE ENABLE NEXT-GENERATION TELEPHONY SERVICES ON WIRED AND WIRELESS CONVERGED NETWORKS

- **COMPACT FORM FACTOR**
- **FAULT TOLERANT**
- **STANDARDS COMPLIANT**
- **CONVERGED WIRELINE AND WIRELESS DESIGN**

The UTStarcom Compact Trunk Gateway enables service providers to offer enhanced IP-based telephony services as they migrate to a NGN infrastructure. The C-TG's main role is to serve as a voice/data/fax bridge between IP networks and legacy PSTN/PLMN networks. It functions seamlessly and transparently, providing utmost scalability and cost-efficiency.

The C-TG is a compact and cost-effective 4 rack unit design that uses the same proven advanced technology from the TG. The C-TG compact gateway offers outstanding price/performance with excellent serviceability and reliability.

The mSwitch C-TG compact gateway provides powerful trunking and switching functions that are perfectly incorporated in the new generation of mSwitch networks to meet service provider requirements.

KEY FEATURES AND BENEFITS

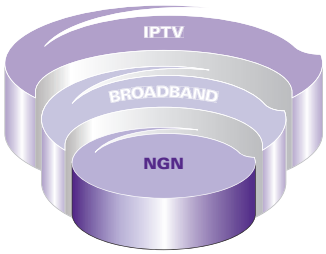
Multiple Applications– Supports applications such as packet toll and packet access tandem, voice off-load, mobile switching trunking, and IP-based enhanced services trunking. Supports the convergence of wireline, wireless and IP by providing connectivity to PSTN/PLMN thereby extending the reach of IP networks and enabling ubiquitous service.

Carrier-Class Communications– Utilizes UTStarcom's outstanding expertise in switching, digital signal processing, PSTN signaling and IP networking to seamlessly bridge telephony services between legacy PSTN / PLMN networks and next generation telephony over IP-based networks.

Cost Effective High Technology– Leverages a design approach that rides the technology cost/performance curve, delivering outstanding technology and applications, with hardware that has one of the lowest cost, highest scalability and one of the finest performances.

Wireline/Wireless Convergence– Interfaces seamlessly with the PSTN/PLMN to deliver toll-quality voice and a suite of value-added services.

Compact Design– A modularized, cost-effective 4 rack unit solution that is slot-compatible with the rest of the mSwtich family. For small applications, the C-TG delivers full function switch in a small package.



High Reliability– Uses a NEBS compliant signaling gateway that includes hot swappable redundant modules and power supplies.

Standards Based– Complies with the IETF Megaco (ITU H.248) standard, H248 v1, SNMP v2 and is SNMP manageable.

Technical Specifications

SYSTEM CHASSIS

Dimensions: 7" (176 mm) H x 19" (483 mm) D x 12" (310 mm) D, rack mountable
Temperature: –5°to 55°C (operating)
Humidity: 5% to 95% non-condensing
Power: –40v to –72v DC
Compliance: FCC (Federal Communications Commission) Part 15 Class A, UL (Underwriters Laboratories) 1950, Canadian-UL, NEBS Level 3, CE Mark (Conformité Européenne), CB Mark, Voluntary Control Council for Interference (VCCI), RoHS (Restriction of Hazardous Substances)

CAPACITIES

CPS: 60
BHCA: 200,000
E1 or T1 IMTs: Typical configuration 60 links per chassis, up to 128 maximum
OC3/STM-1: Up to 1 optical connections per chassis

DSP CAPABILITY

- G.711 A-law/G.711 μ-Law
- G.723.1
- G.726
- G728
- G.729A
- T.38 Fax/ G.711 VBD
- Silence Suppression
- Jitter Buffer
- G.165 and G.168 Echo Cancellation
- Voice Activity Detection (VAD)
- Comfort Noise Generation (CNG)
- In-band DTMF over G.711
- RFC2833 Out-of-Band DTMF
- EVRC

STANDARDS / PROTOCOL SUPPORT

- Megaco / H.248
- SNMP v2
- RTP
- RTCP
- SIGTRAN (IUA / M2UA)
- SIP

HIGH RELIABILITY

- Redundant DC feeds
- N+1 hot swap / load-sharing power supplies
- NEBS-compliant hardware design
- Hot swap / redundant modules
- APS STM-1 / OC3 interfaces
- System MTBF: ≥10 years
- Mean Time To Repair (MTTR): ≤30 mins
- Down Duration: 3 mins/year

MANAGEMENT

- GUI interface for provisioning
- SNMP network manageability for configuration, monitoring and troubleshooting
- In-service software upgrades
- Highly Scalable-Modularized

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About UTStarcom, Inc.
UTStarcom is a global leader in IP-based, end-to-end networking solutions and international service and support. The company sells its broadband, wireless, and handset solutions to operators in both emerging and established telecommunications markets around the world. UTStarcom enables its customers to rapidly deploy revenue-generating access services using their existing infrastructure, while providing a migration path to cost-efficient, end-to-end IP networks. Founded in 1991 and headquartered in Alameda, California, the company has research and design operations in the United States, China, Korea and India. UTStarcom is a FORTUNE 1000 company. For more information about UTStarcom, visit the company's Web site at www.utstar.com

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