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## G/// Gateway technical specifications

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Aculab's G/// gateway is designed to solve incompatibility problems in any telco or service provider network. It is a versatile, resilient and reliable, multi-protocol signalling and media gateway, optimised for SS7 and SIP interworking.

The G/// gateway can be used for many VoIP gateway purposes, enabling the delivery of IP-based, added value services to users in legacy SS7, CAS, and PRI networks. It provides users with enormous flexibility in configuration and usage, including many call routing features.

# G/// gateway

## Features overview

The G/// gateway is an integrated 2U appliance that combines signalling and media interworking, protocol conversion, call routing, and transcoding for supported protocols.








- Multi-protocol signalling and media gateway for any carrier/telco, service provider or telecommunications equipment manufacturer needing TDM-to-IP and/or IP-to-TDM conversion and interworking
- Integrated call manager offering: parameter-based call routing; numbering plans; number translation; alternative or fallback routing; configurable call balancing; and essential failover options for critical SIP deployments
- Optimised for standards-based, SS7-to-SIP voice network interworking and call routing, with no hidden costs or additional licensing fees for SS7/SIGTRAN signalling links
- Deployment proven signalling protocol stacks, with simultaneous use of multiple protocols
- Multi-node clustering of multiple G/// gateways enables large system scaling, with cross-cluster administration from a single node log-in

## Technical summary

- Protocols supported include – legacy CAS, MF-CAMA, global ISDN PRI, SIGTRAN (over SCTP) and international SS7 ISUP via E1/T1 trunks; and SIP 2.0 via redundant Ethernet
- Supports multiple, single and dual redundant SS7 A-links or F-links – with configurable options for ANSI, ITU-T, UK ISUP, and China ISUP call control signalling – for added reliability in high availability environments
- Protocol conversion channel count – supports multiple, simultaneous protocol conversions with no reduction in channel count, regardless of CODEC (vocoder) scheme in use (G.711; G.729AB; G.726)
- Channel counts – up to 960 simultaneous TDM to IP or IP to TDM protocol conversions in a single chassis
- Format – 2U, 19" rack mountable, NEBS compliant, server-based chassis, with dual, hot swap PSUs and RAID Level 1
- Easy administration – log in to a web-based UI at a single gateway to control all G/// gateway nodes in a multi-node, clustered system, or use web-services APIs for remote management of e.g., backups and CDR search
- Management features – benefits from remote 'lights out' and SNMP V3 capability, providing a standard G/// MIB and all appropriate traps and alarms to users' existing central network management facilities via Ethernet
- Encryption – shipped as standard in a 'restricted availability' version, subject to international export restrictions, with support for SIPs and SRTP
- Environmental – The G/// gateway is fully RoHS and WEEE compliant and for carrier/telco deployments in the USA, models with CLEI coding and OSMINE TIRKS compatibility are available

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## Applications

-  Emergency services “media gateway of choice” for next generation 1-1-2 and 9-1-1 protocol interface function (PIF) in EENA/ NENA i3 defined legacy network gateways, including TTY-to-RTT transcoding
-  Cost-effectively extends life of legacy equipment, enabling the extension of hosted, IP-based, added value services towards users/subscribers in legacy PSTN/PLMN networks
-  Add IP connectivity to an existing PBX/ACD system or connect an IP-PBX to an SS7, ISDN PRI or legacy CAS network
-  TDM-to-TDM protocol conversion
-  The G/// gateway can be deployed in practically any telecommunications network worldwide



For more information, please contact your Account Manager or view our website:  
[www.aculab.com](http://www.aculab.com)

## About Aculab

Aculab is an innovative company that offers deployment proven technology for any telecoms related application. Its enabling technology serves the evolving needs of automated and interactive systems, whether on-premise, data centre hosted, or cloud-based.

Over 1000 customers in more than 80 countries worldwide, including developers, integrators, and solutions and service providers, have adopted Aculab's technology for a wide variety of business critical services and solutions.

Aculab offers development APIs for voice, data, fax and SMS, on hardware, software and cloud-based platforms, giving a choice between capital investment and cost-effective, 'pay as you go' alternatives.

## For more information

To learn more about Aculab Cloud and Aculab's extensive telephony solutions visit:

**[www.aculab.com](http://www.aculab.com)**

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