EdgeBlade™ - PG4800GR

HIGH DENSITY GR303 PSTN PLATFORM

EdgeBlade™-PG4800GR is a high density Telcordia GR303 PSTN Signaling platform for applications based on GR303 core specification. PG4800GR meets TMC operational criteria for creating host-side integrated digital terminal (IDT) or remote digital terminal (RDT) digital loop carrier signaling devices. PG4800GR is a robust platform with field-proven solutions that have been extensively tested by customers across North America using AT&T 5ESS and Nortel DMS-100 switches.

- Signal Conversion Platforms
- GR303 based Access Equipment (RDT)
- Class5 IDT simulator
- GR303 based DLCs, Adjunct boxes

KEY FEATURES

PG4800GR is a complete, layered implementation that offers:

- High-density platform with up to 480 channels and 16 T1/J1 spans per card
- GR303 Protocols Supported: GR303 IDT, GR303 RDT, T1/CAS and MFC-R1/R2
- IDT and RDT Call Processing support (GR-303-CORE Chapter 12 Compliance Matrix available)
- Q.931 Call Control (Layer 3) with sample application.
- Fault-tolerant Link Multiplexor (LMUX) with complete Link Management Application.
- Q.921/LAPD Layer 2 Stateless Multiplexor optimized to support GR-303 fault tolerant PPS and physical redundancy.
- Physical Layer Interface Primitives (Data Request, Data Indication, Activate Request, Activate Indication, Deactivate Request and Deactivate Indication)
- HDLC Layer 1 interface with generic I/O driver or pre-integrated drivers for popular processors and T1 framers
- CRV/DSO Mapping and Link State information via APIs
- Detailed statistics available at Physical Layer, Q.921/ LAPD Layer, LMUX Layer and Q.931 Call Control Layer
- POTS, ISDN, NxDSO and nailed-up support.
- Multiple Interface Group (MIG) support for up to 8 groups; ability to dynamically start and stop groups
- Support for N X M mapping of interface groups
- Configurable number of LAPD logical links
- Well-documented API access to Call Control, Management functions (Make Call, Break Call...) and Link Multiplexor for efficient path protection switching.
- Physical Device Redundancy Support option
- Pre-integrated EOC Support for software, agent testers
- Built-in “soft” Protocol Analyzer with symbolic display of decoded TMC/EOC messages with time stamps; dynamic setting of protocol timers and retry counts
- Menu-driven monitor displays statistics for each layer; debug routines can be easily integrated into a craft interface
- Sample call control applications available
- Remote management and Debug Interface support
- Perform bearer channel cross connects for PSTN/ISDN
- ISDN signaling pass-through
- Semi permanent and Permanent Leased Line support

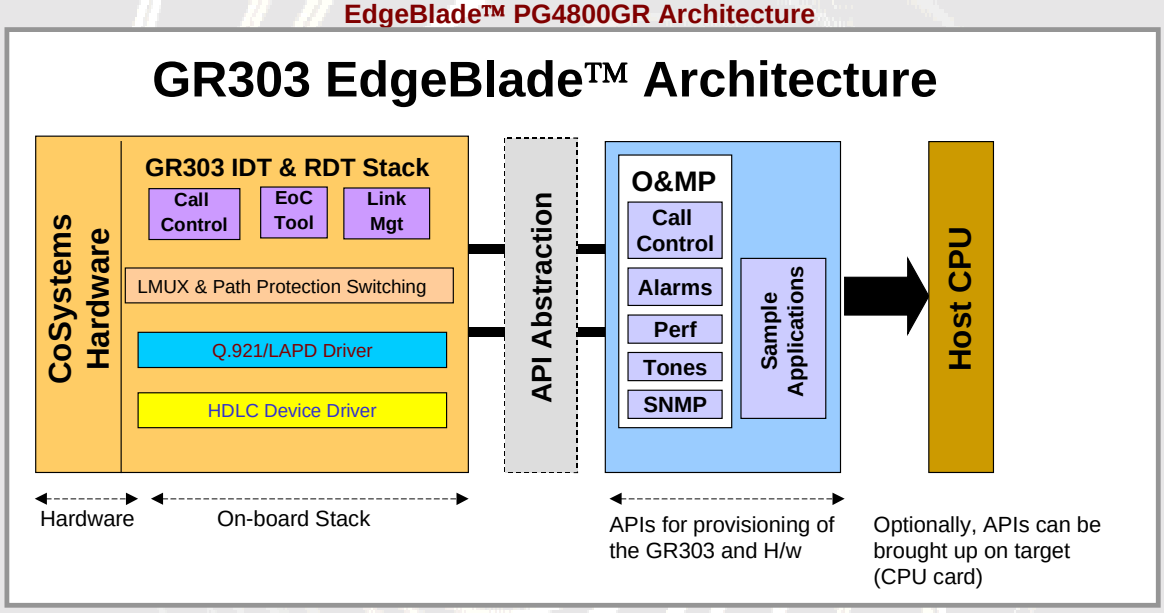
APPLICATION SCENARIOS

EdgeBlade™ PG4800GR is a comprehensive GR303 board that can be used to build high-density RDTs or IDTs. EdgeBlade™ comes with all the required modules and components including T1/CAS, Tones, for building a carrier grade Class5 equipment. With the appropriate use of PRI and IP technology, the platform can be used for developing media gateways and TDMoIP equipment for the Telcordia GR303 based networks.

Key Applications

- GR303 based IDT/RDT applications – Switches, DLCs, Adjunct boxes, Simulators
- Signal conversion
- ISUP/A & GR303 based mobile switching applications. (Needs additional ISDN EdgeBlade™)

EdgeBlade™ PG4800GR Architecture



EdgeBlade™ PG4800GR is ported with the required GR303 modules including drivers for OEMs and Systems Integrators to build carrier grade equipment. The technology is fully ported and optimized on the board and all the APIs are drawn out and can be accessed using a CPU card or directly from the card. The card is available on 16, 12, 8 and 4 port options.

TECHNICAL SUMMARY

FEATURES	DETAILS
Channel Capacity	Up to 480 independent channels per board.
Ports	Available in 16, 12, 8 & 4 spans of T1/J1s
DTMF	DTMF detection and generation. Support for R1 and R2 signaling
Data	V.110 or RLP or HDLC or V.23
Management Support	SNMP V1: Standard MIB-2, RTP MIB, Trunk MIB, CoSystems proprietary MIBs, on board Java support
Operating Environment	Linux, Windows XP, NT, 2000, Intel/Solaris & Sun/Solaris
PSTN Signaling	Telcordia GR303 IDT / RDT.
Tones	DTMF/MF-R1/R2/ Telephony tones detection & generation: up to 480 channels
Clock	T1/E1 BITS Clock: Timing Reference
Management Bus	Primary PCI bus: 32/64bit 33/66MHz; Secondary PCI bus: 32bit 33/66MHz
Ethernet	10/100Mbps management port
Control Plane	APIs for Linux, Solaris and Windows over PCI and Ethernet

Ordering Information

Item	Ports	Description
EdgeBlade PG4800GR – RD	16	GR303 with RDT applications
EdgeBlade PG4800GR – ID	16	GR303 with IDT Applications
EdgeBlade PG4800GR – CG	16	GR303 with T1/CAS support

*All boards are available on 12, 8 and 4 port options. * Call for details*

Why EdgeBlade™ ?

- ✓ Built with robust and optimized technology
- ✓ Pre-ported with required components
- ✓ Fully integrated with the hardware and OS
- ✓ Tested on various CPUs, chassis and interfaces - Can be integrated easily
- ✓ Rich suite of features
- ✓ Comprehensive suite of APIs drawn out
- ✓ Carrier grade system design with High Availability
- ✓ Optimized cost per port

ABOUT COSYSTEMS

CoSystems, headquartered in the Silicon Valley, is a leading edge Technology solution providing company that has a proven track record of delivering high-quality Technology solutions to global Telecom and Datacom companies. Backed by a 22-year existence in the communications technology horizon, CoSystems is dedicated to delivering complex systems and building blocks to telecom operators, ISPs, Cable Operators, MSOs, and to the emerging wireless voice and packet infrastructure markets. CoSystems solutions offer high-value applications, optimized costs and minimized risk global customers who benefit in rapid Return on Investments in their deployments. CoSystems addresses the market needs through a network of distributors, VARs, Systems Integrators and service providers across the globe. CoSystems solutions include Signal Conversions products, Access Gateways, Signaling Gateways, Media Gateways, products for Broadband using DSL, Cable and WiFi technology. For more information please contact:

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