EdgeBlade™ - PG4800PR

HIGH DENSITY ISDN PLATFORM

EdgeBlade™-PG4800PR is a high density ISDN PRI platform ported with multiple Primary Rate Interface and Basic Rate Interface protocol definitions. PG4800PR allows developers to rapidly create high-performance routers, Enhanced PBX, ISDN signaling based access as well as central office equipment.

By capitalizing on the integrated, pre-ported and pre-tested technology, developers can dramatically shorten product development cycles and accelerate time-to-market with minimal technology risk.

KEY FEATURES

PG4800PR is a complete, layered implementation that offers:

- High-density platform with up to 16 E1/T1/J1 spans per card
- CCITT Q.931/Q.932 Layer 3 Call Control with support for wide range of Supplementary Services
- CCITT Q.921/Q.922/LAPD (ITU I.441, ANSI T1.602) Layer 2 scaleable multiplexor supports unlimited number of channels or bundles
- Layer 2 Data Link Provider Interface (DLPI) access
- CCITT I.430 Layer 1 generic I/O interface
- Multiport TEI Management support in a single task/process; European Multi-Drop support
- AO/DI, AutoSPID and AutoSwitch services
- Supplementary Call Services - Call Forwarding, Call Blocking, Call Waiting, Call Transfer, Call Hold, Call Conference (3-way), Advice of Charges and Keypad Feature Implementation
- ISDN Users Forum (NIUF) ASI Library with interpreter
- North American User-side switch support - AT&T 5ESS, Nortel DMS-100 and National ISDN (NI-1)
- International User-side switch support - ETSI NET3/ NET5 (tested for TBR-3/TBR-4), German 1TR6, French Vn2/3, Japan INSnet64 INSnet1500 and Australian TS-013/TS-014
- Network-side switch support - National ISDN-1 (NI-1), ETSI NET3 NET5
- Embedded built-in soft Protocol Analyzer emulation with trace, symbolic display time-stamping and event logs
- Well-documented API access to Call Control, Management functions (Make Call, Break Call...)
- Menu-driven monitor displays statistics for each layer; debug routines can be easily integrated into a craft interface
- Complete or partial ISDN hardware/software design, integration, and test services available; proven track record with numerous customers and products
- Sample applications available
- Remote management and Debug Interface support
- Performs bearer channel cross connects for PSTN/ISDN

CoSystems

FLEXIBLE ISDN PLATFORM

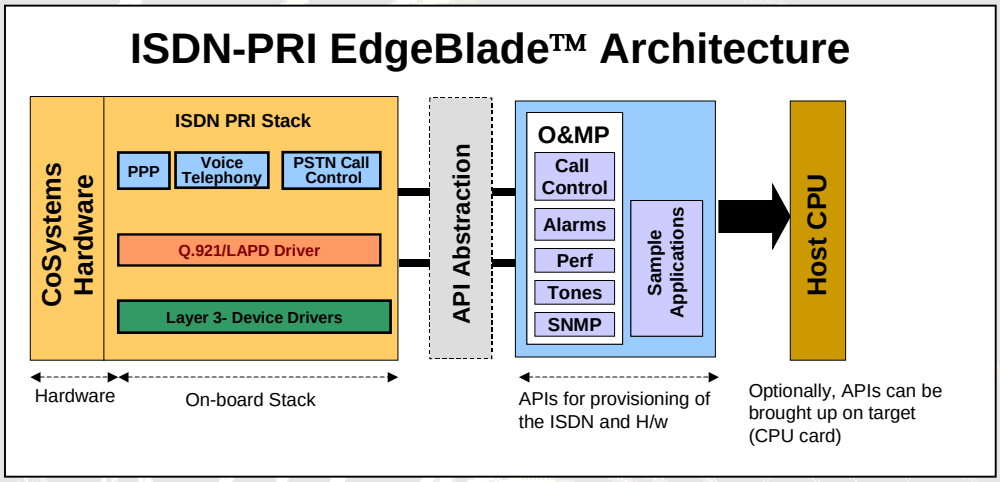
APPLICATION SCENARIOS

The EdgeBlade™ can be used as a central office interface board as well as access network equipment with PRI interface. The platform is ported with required ISDN modules and all the APIs are drawn out from the board to a target CPU or other boards in the chassis.

Key Applications

ISDN PRI/BRI resource board, V5.2 to PRI signal mapping, PBX/IP-PBX applications with appropriate resource boards and ISDN based TE and NTs

EdgeBlade™ PG4800PR Architecture



EdgeBlade™ PG4800PR is ported with all the required ISDN modules including drivers as well as call control modules for ISDN BRI and PRI. This platform can be used for ISDN based channel banks or as PRI interface based access equipment in addition to building CPE devices like PBXs, IP-PBX, etc. 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.

Switch variants

- National ISDN1 (BellCore)
- National ISDN2 (BellCore)
- Euro ISDN (Net5) (ETSI) - EuroISDN is used in many countries throughout Europe and Asia Pacific and in Australia
- VN4 (France)
- ITR6 (Germany)
- TS014 (Australia)
- 5ESS (AT &T) or AT&T ISDN (USA)
- INS-1500 – Japan.
- KDD (Japan)
- NTT (Japan)
- DMS100 (Nortel)

TECHNICAL SUMMARY

FEATURES	DETAILS
Channel Capacity	Up to 480 independent channels per board.
Ports	Available in 16, 12, 8 & 4 spans of T1/J1s
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
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 available for Linux, Solaris and Windows over PCI and Ethernet

Ordering Information

Item	Ports	Description
EdgeBlade™ PG4800PR	16	Available in 12, 8, 4 port densities

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

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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