

## Software Protocol Stack for creating ISDN BRI/PRI Devices

## Product overview

CoISDN is a portable 'C' software implementation of single Basic Rate Interface, multiple Basic Rate Interface, and Primary Rate Interface protocol definitions. Created as a set of layered STREAMS modules and daemons, CoISDN allows developers to rapidly create high-performance PC adapters, adapter subsystems, external TAs, routers, Enhanced PBXs and custom embedded products using a wide variety of operating systems and development tools.

By taking advantage of pre-ported and pre-tested code, developers can dramatically shorten product development and accelerate time-to-market with minimal technology risk.

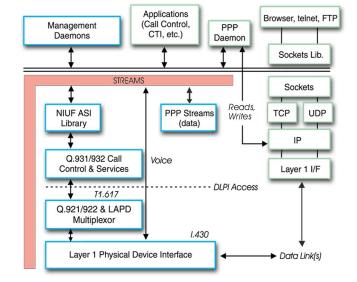
Available in "pre-ported" binary code and/or source code format, CoISDN supports processors, transceivers, framers, and developer reference platforms from AMD, Artesyn, ATLAS, Cirrus Logic, Cologne, Dallas, Force, Intel, Level 1, Lucent, Motorola, Natural Microsystems, PMC Sierra, Siemens, SGS Thomson, Sun, T.sqware, Yamaha and others.

CoISDN is available in source code and binary code formats for the following operating environments:

- Windows 95/Windows NT
- Sun Solaris (SPARC and x86)
- VxWORKS, pSOS, Nucleus (call for availability), VRTX, C- Exec and CoSystems CoPX
- x86, 68xxx and MPC860/8260 platforms Highlights of the ColSDN protocol stack include:
- 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.

- Plug-compatible with CoPPP-ML (MultiLink PPP+PPP) for dynamic allocation, channel bundling, compression, etc.
- 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 (CoISDN v3.3), AutoSPID and AutoSwitch (CoISDN v3.4) services.
- Supplementary Call Services Call Forwarding, Call Blocking, Call Waiting, Call Transfer, Call Hold, Call Conference (3-way), Advice of Charges (CoISDN v3.4) 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 "soft" Protocol Analyzer emulation with trace, symbolic display time-stamping and event logs.

An overview of the CoISDN stack architecture is shown below:





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