Intel® Dialogic® System Release 6.0

CompactPCI for the Linux and Windows Operating Systems

The Telco-Ready Release

Intel® Dialogic® System Release 6.0 supports new high-density Intel® NetStructure™ boards on the CompactPCI* form factor, and delivers a wealth of features that enhance system availability. Continuous speech processing provides high-quality speech recognition, while conferencing-specific enhancements permit scalability to hundreds of audio conferences. System Release 6.0 allows Intel to deliver building blocks that enable developers, system integrators, and original equipment manufacturers (OEMs) to supply robust carrier-grade solutions for the modular network. These solutions use fewer hardware resources and take up less space, resulting in lower development, deployment, and operating costs.

High Availability Features and Benefits

System Release 6.0 improves the availability characteristics of Intel NetStructure boards offered on CompactPCI for mission critical, high-end enterprise and service provider applications. These high-availability features include:

Features	Benefits
CompactPCI basic peripheral hot swap (PICMG 2.12)	Allows a user to replace a faulty board while the system continues to operate, minimizing downtime
Redundant system slot (RSS) capability using an RSS chassis	Decreases system repair time by eliminating the need to restart the operating system
Standards-based simple network protocol (SNMP) that includes RFC1213 and RFC2495	Provides remote monitoring and fault detection through a standard management tool that decreases repair time
Improved system initialization time	Minimizes downtime due to system reboot or software reset
Complete timeslot management including an automated fallback capability	Eliminates system downtime due to clock failure in a multi-board system
Locking Elma-style board ejectors	Guards against accidental board removal since operator error in such cases is a significant cause of system failure

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Intel in Communications
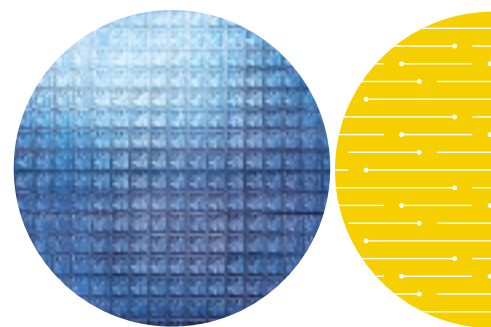
High Density Hardware

System Release 6.0 highlights high-density hardware:

- **Intel® NetStructure™ DM/V2400A board** – provides up to 240 ports of rich media processing

- **Intel® NetStructure™ IPT boards** – offer 120, 240, 480, and 672 ports through dual 1 GB interfaces with 64 ms of echo cancellation

- **Intel® NetStructure™ DMN160TEC board** – supplies 16 software-selectable T-1 or E-1 digital network interfaces

Intel® NetStructure™ DM/V-A Resource Boards

DM/V-A products are communications boards designed to support advanced, high-density communications servers. These boards offer voice processing, conferencing, fax, and speech capabilities plus network interfaces on a single board. These boards support 1200+ ports per system. New features include:

- **On-board fax and continuous speech processing** – media load on the DM/V2400A supports 120 channels of speech recognition and 12 channels of fax

- **Basic conferencing** – 240 channels on the DM/V2400A (without echo canceling, tone control, and dual tone multi-frequency [DTMF])

- **Conferencing enhancements** – cascading (bridging), volume control, conference monitoring, and DTMF clamping on a per-party basis

Intel® NetStructure™ IPT Boards

IPT boards are standards-based IP interface boards for developing scalable, carrier-grade IP telephony gateways and media servers. Because IPT boards support 120, 240, 480, and 672 low bit rate vocoder ports and the H.110 telephony bus, systems utilizing IPT boards can scale to thousands of ports. Other features include:

- Multiple low bandwidth vocoder algorithms including ITU-T G.711, G.723.1+a, and G.729a+b

- High performance echo cancellation up to 64 ms

- T.38 fax

Intel® NetStructure™ DMN160TEC Network Interface Board

The DMN160TEC is a high-density network interface board that will support 16 software-selectable T-1 or E-1 digital network interfaces in groups of four, providing support for up to 480 ports. The DMN160TEC allows easy global deployment by supporting multiple ISDN variants as well as clear channel mode for use with SS7 networks. Other features include:

- Support for non-facility associated signaling (NFAS) and D-channel backup

- A-law/μ-law conversion

- Network equipment building standards (NEBS) friendly

The DMN160TEC works under the Global Call application-programming interface (API) for call control and can be used in high-availability solutions.

Solution Configurations

System Release 6.0 for CompactPCI has been tested and certified on multiple configurations for a wide variety of solutions including:

- Media gateways
- Enhanced programmable switches
- VoIP enhanced media servers
- Conferencing servers
- Unified messaging servers
- Interactive voice response (IVR) servers

Additional details are available in the Intel® Dialogic® System Release 6.0 for CompactPCI product documentation available at http://resource.intel.com/telecom/support/documentation/releases/index.htm.

Intel® NetStructure™ Telephony Boards Supported

Boards	New	Existing
IP with Network Interface	IPT6720C IPT4800C IPT2400C IPT1200C	DM/IP481-2T1-CPCI-100BT DM/IP601-2E1-CPCI-100BT DM/IP601-CPCI-100BT
Network Interface	DMN160TEC	DM/N960-4T1-CPCI DM/N1200-4E1-CPCI DM/T960-4T1-CPCI DM/T1200-4E1-CPCI
Media Span		DM/V960A-4T1-CPCI DM/V1200A-4E1-CPCI DM/V480A-2T1-CPCI DM/V600A-2E1-CPCI DM/V2400A-CPCI DM/V960-4T1-CPCI DM/V1200-4E1-CPCI DM/V480-4T1-CPCI DM/V600-4E1-CPCI
Fax		DM/F240-CPCI DM/F300-CPCI
Station Interface		HDSI480CPCI HDSI720CPCI HDSI960CPCI HDSI1200CPCI

Operating Systems Supported

Linux Operating System

- Red Hat* Linux* 7.3 – See http://www.redhat.com/software/linux/

- Red Hat Linux kernel 2.4.18-5

Windows Operating System

- Microsoft Windows* 2000* Professional – See http://www.microsoft.com/catalog/display.asp

- Microsoft Windows 2000 Server – See http://www.microsoft.com/catalog/display.asp

- Microsoft Windows 2000 Service Pack 3 – See http://www.microsoft.com/windows2000/downloads/servicepacks/sp3/default.asp

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