

Penta cPCx™

IP Based Digital Communications System

Overview:

The Penta cPCx Communications Control System is an open architecture IP based digital communications system built around the standard Compact PCI platform, H.110 digital bus architecture, and IP telephony. It will provide a system wide voice and data dispatching solution that will enable voice connectivity and interoperability between the system resources.

- ◆ Radio/Telephone Dispatching and Interoperability
- ◆ VOIP, Digital and Analog circuit interfaces
- ◆ Client/Server IP-Based Architecture
- ◆ State-of-the-art Technology
- ◆ Remote access, monitoring, supervision
- ◆ Modular and Scalable for Easy Expansion
- ◆ PCIMG 2.16 Compliant Backplane
- ◆ Redundant, Hot-Standby System Controllers

Features:

The cPCx system will provide voice circuit interface 2048 voice circuits and support the following circuit line types:

- T1 digital circuits
- E1 digital circuits
- PRI-ISDN
- FXS
- FXO
- E&M
- Ethernet
- VOIP using Industry standards
- two-wire and four-wire circuits to radios
- two-wire telephone type lines from PBX/PSTN
- automatic ring-down intercom lines
- "hoot and holler" intercom lines
- telephone lines from the public telephone network
- microwave channels
- fiber optic lines



The cPCx will support the following Signaling types:

- DTMF In/Out
- Pulse/Tone Dial
- VOX (Voice Activated)
- E/M LEAD
- 2175 Hz Tone
- Loop/Ground Start
- EIA Tones
- All Popular Radio ANI Formats
- iDEN Direct Connect
- VOIP using SIP, H.323, G.711, G.726, G.729 and others

Features:

The cPCx can patch any voice circuit to any other voice circuit, thus providing interoperability between radio and telephone systems regardless of the vendor's equipment.