



The Septel™ PCI is part of the Septel™ range of intelligent SS7 products. It combines on-board support for Common Channel Signalling protocols, with up to 4 digital line interfaces (E1/T1/J1) and an H.100 PCM highway.

A dedicated on-board processor makes performance independent of the processor load of the host CPU. Downloadable operating software makes the card easy to upgrade to cope with protocol specification changes. Since the protocol used is determined by the software downloaded from the host, the protocol in use can be configured at run-time.

The board is available with four line interfaces software configurable for 2048kbit/s CEPT (E1) or 1544kbit/s T1/J1 operation. The H.100 PCM highway allows connection between Septel™ PCI boards and a wide range of third-party voice, data and fax boards.

The Septel™ PCI also provides an option for two V.35 compatible serial ports for use when SS7 signalling is carried separately from the PCM stream.

A digital cross-connect switch allows voice and signalling channels to be connected between the line interface, the PCM highway and the protocol processor. All the voice channels can be dynamically routed to voice or fax boards as required.

FEATURES

A single card for multiple protocols:
Signalling System No 7 (SS7)

Up to four line interfaces:
software-selectable E1/T1/J1

PCI 33Mhz 32 bit bus

H.100 PCM interface

Operating software is downloaded from host for easy upgrades

Signalling via PCM interfaces
H.100 or serial ports

Septel™ Common
Call-Control API

APPLICATIONS

Intelligent peripherals

GSM / Wireless infrastructure

Advanced telephony platforms



SPECIFICATION

Line Interfaces	Connector Format	RJ45 E1/T1/J1 (software selectable)
PCM Highway	H.100	
Serial Ports	Electrical Synchronous bit rate	V.11 (V.35 compatible) 4.8kbit/s to 64kbit/s
Signalling Interface	4 signalling links	
	Line interface, H.100 bus	
	Signalling bit rate	64kbit/s, 56kbit/s or 48kbit/s
	Timeslot	Programmable
	Clock source	on-board oscillator, line interface, H.100 bus
	Serial ports	
	Signalling bit rate	4.8kbit/s to 64kbit/s
Bus Interface	PCI 33Mhz 32 bit	
Physical	Full length PCI card	
Environmental	Operating temperature	0°C to +55 C
	Storage temperature	-40°C to +70°C
	Humidity	0 to 95% non-condensing
	Altitude	0 to 3,500m
Power Requirements	+5V	1.5A typ 2A max

SOFTWARE SUPPORT

Software development packages are available for the Septel™ PCI supporting various operating systems including Windows NT, Solaris, Linux, UnixWare and QNX. Protocol software modules are downloaded from the host processor. This means that the protocol modules are easily updated without opening up the system - there is no need to change PROMS. Multiple boards in the system are automatically updated.

The Septel™ PCI is part of the Septel™ range of scaleable SS7 access products from DataKinetics.



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