

The Septel™ cP is part of the Septel™ range of intelligent SS7 products. It combines on-board support for Common Channel Signalling protocols, with up to 8 digital line interfaces (E1/T1) and an H.110 PCM highway.

### FEATURES

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

Up to eight line interfaces:  
software-selectable E1 or T1

Full Hot-Swap in accordance with  
PICMG standard

Compact PCI 33Mhz 32 bit bus

H.110 PCM interface

Operating software is  
downloaded from host for  
easy upgrades

Signalling via PCM interfaces  
or serial ports

Septel™ Common  
Call-Control API

### APPLICATIONS

Intelligent peripherals

GSM / Wireless infrastructure

Advanced telephony platforms

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.

As one of the main advantages of a Compact PCI card, Full Hot-Swap in accordance with the PICMG standard is supported. The board is available with four or eight line interfaces software configurable for 2048kbit/s CEPT (E1) or 1544kbit/s T1 operation. The H.110 PCM highway allows connection between Septel™ cP boards and a wide range of third-party voice, data and fax boards.

The Septel™ cP also provides up to four 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.



**SPECIFICATION**

**Line Interfaces**

Connector RJ45  
 Format E1/T1 (software selectable)

**PCM Highway**

H.110

**Serial Ports**

Electrical V.11 (V.35 compatible)  
 Synchronous bit rate 4.8kbit/s to 64kbit/s

**Signalling Interface**

4 signalling links

Line interface, H.110 bus  
 Signalling bit rate 64kbit/s or 56kbit/s  
 Timeslot Programmable  
 Clock source on-board oscillator, line interface, H.110 bus

Serial ports  
 Signalling bit rate 4.8kbit/s to 64kbit/s

**Bus Interface**

Compact PCI 33Mhz 32 bit  
 Support for hot-swap

**I/O Connectors**

Via rear transition board in accordance with the PICMG Computer Telephony Specification.

**Physical**

6U Eurocard  
 One Compact PCI slot

**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

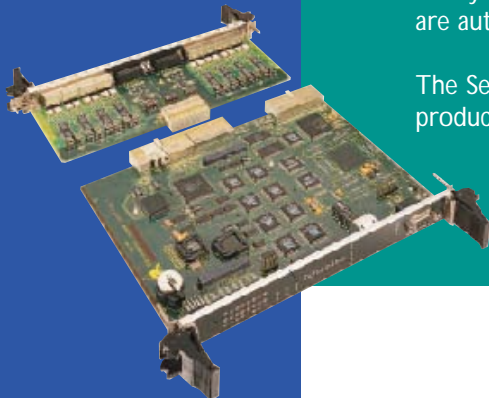
**Power Requirements**

+5V 1A  
 +3.3V 2.5A

**SOFTWARE SUPPORT**

Software development packages will be available for the Septel™ cP 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™ cP is part of the Septel™ range of scaleable SS7 access products from DataKinetics.



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