

PCBIT

ISDN INTERFACE FOR PCs

The power of communication in your computer !

PCBIT

THE PCBIT BOARD ALLOWS...

The connection of a Personal Computer to the ISDN (Integrated Services Digital Network), through the basic rate interface (2B+D), in conformance with the most recent standards (Euro-ISDN) from the European Telecommunications Standards Institute, already adopted by the national telecommunications operators.

HIGH SPEED DATA COMMUNICATION...

With rates of 64 Kbits/s, in each of the two independent channels, the communication can be made over the most common data protocols. Due to the specialized hardware and software implemented on the board, those communication protocols do not, in any way, represent an overhead to the computer performance.

...EASILY AS A SIMPLE PHONE CALL...

The communications handled by the PCBIT board are circuit switched, point to point calls, totally controlled by the computer. The ISDN installation procedures and tariffs, are similar to the telephony network counterparts, also providing an access to the huge international network.

...WITHOUT CHANGING ALREADY EXISTING APPLICATIONS.

The PCBIT board can be used by a large set of existing applications, without changes, due to the capability of MODEM emulation. Besides that functional compatibility, all the advantages provided by the advanced digital technology of ISDN become automatically available.

ARCHITECTURE

The PCBIT board has an open and modular architecture, both at the software and hardware level, making possible the constant development and maintenance of new features. The applications running in the personal computer talk with the board by means of a standard application programming interface (API), available for the MS-DOS and WINDOWS environments.

EXPANDABILITY AND MAINTENANCE

The board provides the IOM² ("ISDN Oriented Modular Interface - 2nd generation") electrical interface, allowing the (piggybacked) mounting of expansion modules with direct access to the data channels of the ISDN interface. The use of these additional modules, makes possible the emulation of analog MODEM and fax devices, or the handling of voice calls with a handset, converting the personal computer into a multifunctional digital telephone, controlled from the respective keyboard. Because the board software is downloaded from the personal computer, the procedures for upgrading to new versions are very simple. This is an essential factor to guarantee the permanent conformance with the evolution of ISDN itself.

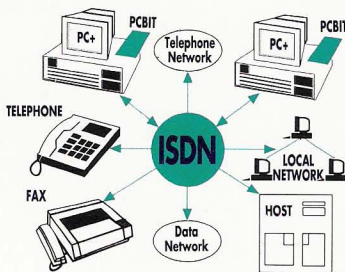
ISDN is PCBIT!
Simultaneous availability
of two digital data channels
(max. 64 Kbit/s, per channel)

Network signalling using a third dedicated digital channel

Call establishment time typically less than 1 second

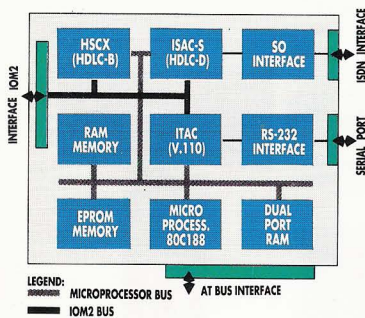
Supplementary services
(calling line identification, direct
dialling in, terminal portability, etc.)

Possibility of simultaneous physical connection
of several terminals to the same network access



APPLICATIONS

File transfer
Remote access to computers and networks
Access to value added services (banking services,
electronic mail, alfapografic videotex, etc)



Tecnical data

ISDN INTERFACE

1 basic access 2B+D
Mechanical specification: 4-W 8 pin connector (RJ45, ISO 8877)
Electrical specification: ETS 300 012
Channel D spec. (signalling): LAPD - ETS 300 125
Call control - ETS 300 102-1
Channel B spec (data): Transparent, HDLC, LAPB, LAPD, X.25, V.110/X.30

Asynchronous bit rate: 1200,2400,4800,9600,19200,38400 bit/s
Synchronous bit rate: 48,56,64 Kbit/s
Rate adaptation: V.110

IOM² INTERFACE
Version 2.1

SERIAL PORT

Mechanical specification: Connector D-25 Female (ISO 2110)
Electrical specification: V.28/RS-232
Circuit definition: V.24/RS-232, DCE mode
Call control: AT/Hayes command set

AT BUS INTERFACE

Mechanical specification: PC/AT (1/2 length)
Electrical specification: PC/AT (configurable interrupt)
Communication: dual port RAM
(1 Kbyte with configurable base address)



As OCTAL continuously promotes the improvement of its products, these specifications can be changed without notice

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