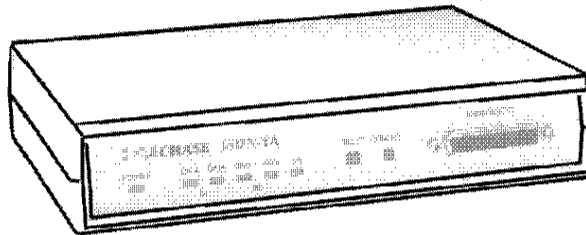


# CHASE ISDN-TA

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## Chase ISDN-TA Terminal Adapter Technical Data Sheet

The Chase ISDN-TA is a high speed, multi-function ISDN terminal adapter which enables up to two devices that would normally communicate using modems or leased lines to communicate over ISDN. By offering standard interfaces to connecting devices the Chase ISDN-TA gives you effortless migration from analogue to high speed, reliable, digital transmission.



### Architecture

The Chase ISDN-TA is a high-speed, multi-function ISDN terminal adapter.

The ISDN-TA allows up to two devices that would normally communicate using modems or leased lines to communicate over ISDN. ISDN provides fast, reliable, digital data transmission with connect times of less than one second.

The ISDN-TA has two independent data channels which can be synchronous or asynchronous. The channels can concurrently operate at speeds of up to 64000 bps synchronous or 38400bps asynchronous over a single ISDN Basic Rate Line. These high speeds are achieved without reliance on data compression.

Standard modem or leased line interfaces are provided, this allows migration of existing analogue modem (synchronous or asynchronous) or leased line applications to ISDN without change.

### Standards

The ISDN-TA is available in three different physical interface standards, V.24,

X.21 and V.35. All models have 2 data ports. The low connect time and high throughput of the ISDN-TA allow it to connect, transfer 100 Kbytes of data and disconnect in less time than it takes more advanced analogue modems to connect and complete negotiation.

The ISDN-TA supports CCITT standard V.110 and X.30 rate adaption protocols allowing it to interoperate with terminal adapters from other vendors.

### Flexibility

Dialling is performed using standard dialling protocols. Asynchronous ports support interface signal dialling (to dial stored numbers), Hayes AT commands enhanced for ISDN or V.25bis dialling. Synchronous ports support interface signal dialling, V.25bis or X.21 dialling.

An additional X.25 packet switched mode allows connected terminals to communicate with hosts on remote X.25 networks via ISDN, using B-channel or D-channel access. The ISDN-TA has a fully integrated Packet Assembler/Disassembler.

The advanced security features of the ISDN-TA allow control of incoming calls using the Calling Line Identification (CLI) feature of ISDN. The number of the caller is supplied with incoming ISDN calls, which can be used to reject calls from unwanted sources.

### Management

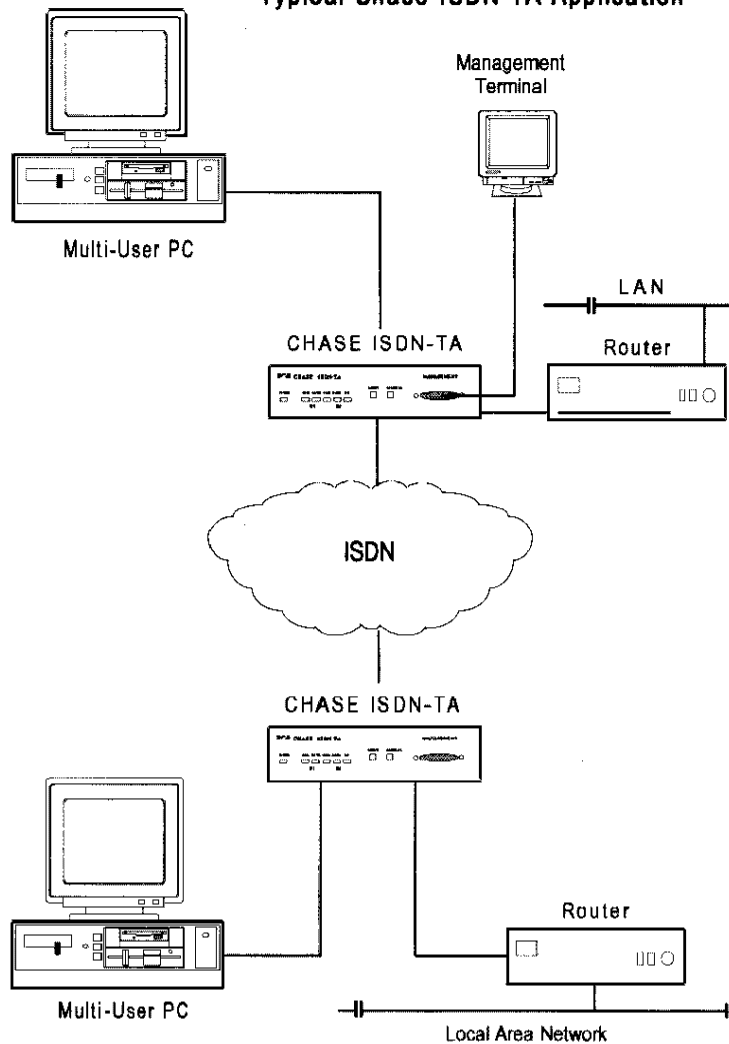
Management of the ISDN-TA is performed using a PC or asynchronous device connected to an independent management port. The current status of the system can be viewed and configuration can be changed and saved in non-volatile RAM. An internal call log keeps track of all incoming and outgoing calls. An accurate history of calls is built up and this can be interrogated by an administrator. Cause codes are provided to show why calls were closed.

The ISDN-TA is the first product of Chase Research's commitment to ISDN and digital wide area networking. The ISDN-TA provides all the advantages of

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## Typical Chase ISDN-TA Application



ISDN and being competitively priced, it actually costs less than a 'high-end' single port analogue modem.

## Applications

The Chase ISDN-TA can be employed in many business environments for applications as diverse as modem replacement (the CHASE ISDN-TA can connect and transfer 100Kbytes of data and disconnect in less time than it takes a V.32bis modem to dial, connect and complete negotiation), providing bandwidth on demand for connecting routers and remote bridges over ISDN, connecting codecs for high-quality audio transmission, sending of large data files reliably (eg page layouts, graphic and photographic images etc), teleworking (home working, field communications etc), retail (ISDN allows sales outlets to be polled for stock levels and sales figures much faster than using modems), security critical applications (using Calling Line ID restriction), slow scan video and data collection.

## Chase Research

Chase Research is a leading international company, specialising in the design and manufacture of a wide range of connectivity products. The Chase range includes intelligent and non-intelligent I/O solutions, LAN connectivity solutions with terminal and print servers and for the WAN market, an advanced terminal adapter, the ISDN-TA. Chase Research products are sold and installed world-wide and are used extensively by end-users and OEMs alike.

## Technical Specification:

ISDN interface:	Basic rate 2B + D S interface - 2 data channels (B), 1 control channel (D)
Serial interfaces:	V.24, X.21 or V.35
Number of ports:	2
Dialling modes:	Hayes AT enhanced for ISDN, synchronous dialling
Rate adaption:	V.110, X.30
Data rates:	Asynchronous: 300 - 38K baud; Synchronous: 600 - 64000 baud
X.25 support:	PAD access to X.25 networks via ISDN
Security:	Calling Line Identification
Management:	Configuration, status and diagnostics
Other features:	Sub-addressing, stored number dialling
Processor:	Motorola 68302
Physical indicators:	Power, B channel calls / data, D channel

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