

HiPath DX basic rate ISDN access

HiPath DX, Realitis DX and iSDX support ISDN for network access, desktop telephones, mobility and other applications such as video conferencing, multimedia PCs and data transfer. This seamless end to end service enables customers to benefit from high performance digital communications in all areas of their organisation.

The HiPath DX builds upon the proven technology and reliability of the UK's best in class networking communication servers. The HiPath DX is the natural progression for existing iSDX and Realitis DX systems providing the transparency and functionality required for expanding digital IP networks. The DX broad Siemens application portfolio is compatible with the HiPath DX, Realitis DX and the iSDX.

In today's information oriented world, the success of your business can depend on your ability to exchange information between offices, customers and suppliers. The Integrated Services Digital Network (ISDN) is the premier route for cost effective, high speed, high quality information transfer, on a national and international basis. The HiPath DX supports both primary rate and basic rate ISDN, conforming to internationally accepted EuroISDN standards. This ensures support for public network services (such as the UK's ISDN 2 and ISDN 2e services) as well as a broad range of EuroISDN compliant products available from a wide range of vendors.

The ISDN network behind the 'wall socket' can now be the same at home, in the office, in the private network and with your customers or suppliers (potentially anywhere in the world). Business applications which use this network can now instantly communicate the right information, in the right format, from the right place, at the right time.

Benefits

- Cost effective public ISDN access
- ISDN service delivery to the desktop as communication server extensions
- Single card solutions for voice, data, mobility and video
- High speed, high quality information transfer
- High reliability, 'dial up on demand' service
- Conforms to EuroISDN standards enabling wide choice of applications

ISDN comprises two main elements: the digital network and user oriented services delivering applications to the desktop and computer rooms. HiPath DX satisfies the requirement on both counts. A port on either the Digital Terminal Interface (DTI) card, or Basic Rate Access InterFace (BRAIF) card offers a standard 2B+D connection to the desktop.

Ports on the DTI card can be used to support Realitis telephones – a range of ISDN system telephones, cordless base stations or other ISDN applications such as dial up connections for LAN, video conferencing and multimedia PCs.

The BRAIF offers a mixture of ports for connection to ISDN public services or ISDN desktop applications to:

- Save time and money whilst improving efficiency and productivity using a variety of video applications
- Connect together and provide user access to information within disparate LAN's on a global basis
- Reduce operating costs whilst improving network efficiency by eliminating costly, but usually redundant leased circuits which cater for network resilience and peak traffic
- Send and receive "bulky" electronic information on computer files at much greater speeds
- Bring multimedia information to desktop PC users whilst witnessing productivity and efficiency increase and information sharing on a global basis
- Use high performance facsimile machines, enabling transmission of highest quality prints for much faster communications
- Share capacity for voice and video traffic and out of hours data backup



HiPath DX

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Technical specification

The Basic Rate Access InterFace (BRAIF) card and Digital Terminal Interface (DTI) card are ITU-T I430 compliant physical interfaces.

BRAIF (ports per card)

- Six subscriber 'S' ports* on HiPath DX, Realitis DX and iSDX
- Two further subscriber 'S' or Trunk 'T' programmable ports on HiPath DX, Realitis DX and iSDX

DTI (ports per card)

- Eight subscriber 'S' ports when used with iSDX
- Sixteen subscriber 'S' ports when used with HiPath DX or Realitis DX

CAT3 or CAT5 cabling terminating on RJ45 sockets

- Four wire (voice grade building wiring) is also acceptable

The HiPath DX software supports basic rate ISDN ports which are compatible with UK and EuroISDN standards, based on Q921 at layer two and Q931 at layer three. Specifically, the following ETSI standards are supported:

- ETS 300 403 (formerly 102 simple voice and non-voice calls)
- ETS 300 092 calling line identity presentation
- ETS 300 061 sub-addressing
- ETS 300 064 DDI †
- ETS 300 130 malicious call trace †
- ETS 300 052 MSN
- ETS 300 192 EuroISDN compliant devices
- ETS 300 240 keypad protocol for stimulus access to HiPath DX features
- ETS 300 190 feature key management protocol for stimulus access to HiPath DX features

BRAIF card compatible software
iSDX release 5.1 onwards
Realitis DX release 6.0 onwards
HiPath DX release 8.0
App pack 4 onwards.

DTI card compatible software
iSDX release 6.1 onwards
Realitis DX release 6.1 onwards
HiPath DX release 8.0
App pack 4 onwards.

*All 'S' ports can have a multidrop capability

† BRAIF card "T" port only, malicious call trace supported from release 6.1 onwards



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