

# emutel™ Pro

## ISDN Network Simulator



### Arcatech - emutel™ Pro Features:

A wide range of interface types allow you to simulate all of the functionality of regular ISDN lines - and much more

Configuration is extensive but simple using a windows application or ANSI based terminal

Transparent mode allows you to connect a terminal to a regular ISDN line and monitor its operation using the protocol analyser

Helpful LEDs show the status of each interface at a glance

emutel™ Pro can emulate different variants of ISDN by changing the PCMCIA personality card at the front

Depending on network type a range of supplementary services are supported for telephones and PBXs

emutel™ Pro's weight, size and universal power supply make it a convenient portable network for exhibitions and on site customer demonstrations

#### BRI Interfaces

2 (any mix of S and U [2BIQ]) (see unit options for more details – link to unit options)

#### PRI Interfaces

2 (any mix of E1 and T1) (see unit options for more details – link to unit options)

#### BRI Interface Power

40V, 1W Normal and Restricted on S  
40V, 1W Normal and Sealing on U

#### Transparent Operation

Available on PRI and BRI Interfaces  
X.21 Data Port 4 (1 per interface) 64K-1920K DCE for external equipment access to B channels

#### Semi-Permanent Connection

Semi-permanent/nailed-up connection on BRI/PRI B channels

#### B Channels

2 per BRI, 6-30 per PRI E1 and 6-23 per PRI T1

#### Clock Synchronisation

1 master emutel|Pro can drive up to 3 slave emutel|Pros to lock ISDN clocks

#### Display Indicators

P (physical), D (datalink), and B (B channel) per interface

#### Protocol Analyser (option)

Layer 1, 2, and 3: Configuration for all networks irrespective of networks simulated

#### Network Variants

CCITT\*, BTNR191 (UK), VN2/3 (France), ITR6 (Germany), ETSI (Europe), NAT-1/DMS100/5ESS (North America), and NTT (Japan) - supported by PCMCIA plug-in personality cards

#### D Channel Packet

X.25 on BRI1/BRI2, 100 logical calls in DCE mode

#### User Interface

Windows application or VT100 Terminal (V.24 Interface DB9 connection)

#### Directory Numbering BRI

Two numbers per Interface normal and twenty numbers per Interface if using DDI/MSN

#### Directory Numbering PRI

Thirty numbers per Interface normal and one hundred numbers per Interface if using DDI/MSN

#### Supplementary Service Support

Various depending on network simulated

#### Test Tones

Dial, Busy, Reorder, Alerting, and Selected Tones 300 Hz-3400 Hz, +3dBm to -26dBm

#### Power Requirements

80-260 Vac, 40W

#### Environmental

0-50oC, 10-80% Humidity (Non Condensing)

#### Weight

2.7 Kg

#### Size

32cm x 30cm x 5cm

#### Warranty

emutel|Pro is supplied with one year's product warranty

By simulating the operation of a Central Office Switch, emutel™ Pro provides both Basic Rate ISDN (either U [2 wire] or S [4 wire]) and Primary Rate ISDN (E1 or T1) connections which may be used just like regular ISDN lines or employed to carry out equipment testing. (see unit options for more details – link to unit options)

Almost every feature of emutel™ Pro can be customised, for example, the entire directory numbering structure can be changed. Special numbers activate network conditions such as User Busy or Call Rejected and line power can be switched on or off.

emutel™ Pro is also extremely easy to use with indicator LEDs showing at a glance what each terminal is doing and a windows application program displaying Protocol Analyser information and allowing simple device configuration.

emutel™ Pro is a truly international product. By plugging in personality cards the system can accurately emulate ISDN variants in a whole range of different countries. Cards are available for BTNR 191 (UK), VN3 (France), ETSI (Europe), ITR6 (Germany), NTT (Japan) and AT&T 5ESS, National-ISDN & Nortel DMS100 (North America). Network dependent supplementary services are also supported.

At just 2.7 Kg emutel™ Pro is easily portable and, since terminals can be powered directly from the interfaces, it really is the ideal system for use at demonstrations, presentations and exhibitions. In addition emutel™ Pro 's universal power supply, which automatically switches between 240V and 110V, ensures that the system is transferable between the US and Europe without any adaptations.