NI 6830 ISDN
Basic Rate Tester
Reference Card

BT

1 Run Test Sequence

Select Sequence

Customer Numbers 1, 2	Enter numbers assigned to this location.
Available Test Sequences	Select test sequence to run.
Select	Run highlighted test sequence.

During Sequence Execution

Stop	Abort sequence execution (may not be available for some sequences).

After Sequence Finishes

Run	Run sequence again.
	Save test sequence results to a text file.
File»Print (Ctrl+P)	Print or fax test sequence results.
File»Open (Ctrl+O)	Load another test sequence.
Sequence»Clear Resuts	Clear results window.
	Return to main screen.

2 Bit Error Rate Test

Parameters

Phone number	Enter number or click ▼ to select from the list.
Channel	B1 or B2
Bearer	Data (64 kbit/second), Speech
Pattern	PRN9 (511 bits), PRN11 (2047 bits), PRN15 (32767 bits)
Test time	1 min, 15 min, 1 hour, Continuous, Custom

During Test

Inject Bit Error	Insert single bit error.
Abort	Stop test.
Reset Counters	Reset statistics.

Test Log

View Log	Show test log.
Print	Print or fax log contents.
Save	Save log to a file.
Clear	Delete contents of the log.

3 Speech and 3.1 kHz Audio

Parameters

Dialing mode	Overlap or en-bloc
Phone number	Enter number or click ▼ to select from the list.
Channel	B1 or B2
Bearer	Data (64 kbit/second), Speech

During Test

Status	Last call status.
Keypad (overlap mode only)	Dial desired number.
Send Audio Check	Send computer generated sound to check audio.
…	Select another audio file.
Hang-up Call	End active call.

4 Teleservices

Phone number	Enter number for test or click ▼ to select from the list (usually B2 number).
Teleservices	Select from Telephony, Telefax, Teletex, Videotex, Mixed Mode, OSI Application, Telex.
Mark All Clear All	Mark or unmark all items in the teleservices list.
Test *Teleservice*	Test highlighted service.
Test Marked	Test only marked services.
Test All	Test all teleservices in the list.

5 Supplementary Services

Phone number	Enter number for test or click ▼ to select from the list.
Supplementary services	Select from CLIP, CLIR, DDI/MSN, SUB.
Mark All Clear All	Mark or unmark all items in the services list.
Test *Service*	Test highlighted supplementary service.
Test Marked	Test only marked services.
Test All	Test all services in the list.

6 Voltage Checks

Power Source 1 Power Source 2	Show status of ISDN power sources.
Refresh	Recheck voltages.

7 Protocol Decode

▶	Resume packet decode.
⏸	Pause packet decode.
💾	Save packet decode as text or raw data.
👓	View selected packet details.
✕	Clear packet list.
⚙	Configure filters.

8 Options

Customer Numbers

1, 2	Numbers assigned to this location

ISDN Interface

Interface Type	S/T or U
S Bus Configuration	Point-to-multipoint or point-to-point
TEI	Point-to-point static TEI
Activation Timeout	Amount of time to wait for TEI assignment

General

Prompt for Numbers	Select if tester should prompt for customer numbers every time.
Remember Last Numbers	Keep record of last entered customer numbers.
Voltage Check on Activation	Check line voltage every time S_0 activation is achieved.
Full-Duplex Audio	Use full-duplex audio (some older computers do not support full-duplex).
Loop Data, Speech, or 3.1 kHz Audio	Control automatic loopback of incoming calls of a particular type.

Filters

Net/User	Filter packets based on the source.
Protocol	Selects protocol to configure.
Packet List	Check packets you want to display in the decode list.

Stored Numbers

Number List	Shows currently stored numbers.
Add	Add new number.
Remove	Remove number from list.
Properties	Change phone number or description.

9 ISDN Monitor

Layer Status

Layer 1, Layer 2	Green light indicates layer has been activated.

Line Voltages

PS1, PS2	Green light means normal power supply, yellow means restricted power, and red means low or no supply.

Channel Status

B1, B2	LEDs are orange when a channel is in use.

Incoming Call Display
(only when incoming call is in progress)

Number	Calling number
Bearer	Data, Speech, or 3.1 kHz
Channel	B1 or B2
End Call	Terminate incoming call.