Dialogic®

Eiconcard™ Family Installation Guide

for PCI and PCI Express Compatible Bus

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Introduction

This booklet describes the Dialogic® Eiconcard™ C and S series interface cards.

All Eiconcards have been tested and found to comply with the Electromagnetic compatibility, Safety and Network connection regulations within the European Union, North America, and other major territories. Read the regulatory information on page 41 before installing and using your product.

Eiconcard C series

The Eiconcard C series are intelligent multi-protocol wide-area network (WAN) interface cards for PCI/PCIe-based workstations, offering connectivity through V.24 and/or ISDN ports.

The Eiconcard C series allows you to connect using WAN protocols such as X.25, Frame Relay, PPP, SDLC and HDLC, over leased lines, dial-up lines or ISDN lines.

Model	CPU / Memory / Flash	V.24 Ports	ISDN BRI Ports
Eiconcard C90	16 MHz Motorola 68302 512 KB RAM 512 KB Flash	1	0
Eiconcard C91 S/T	16 MHz Motorola 68302 512 KB RAM 512 KB Flash	1	1
Eiconcard C91 V2	50 MHz Motorola 850 8 MB SDRAM	1	1
Eiconcard C91 PCIe LP	50 MHz Motorola 852T 8 MB SDRAM	1	1

V.24 port

The V.24 port supports line speeds of 64 kbps.

ISDN BRI port

The ISDN BRI port supports transfer rates up to 64 kbps on each “B” channel and 16 kbps on the “D” channel. It features an integrated S/T interface.

Eiconcard S series

The Eiconcard S series are intelligent multi-protocol wide-area network (WAN) interface cards for PCI/PCIe-based servers. These interface cards feature a Very High Speed Interface (VHSI) port

and an ISDN BRI port, supporting line speeds up to 2 Mbps (T1/E1) and 128 kbps respectively.

The Eiconcard S Series allows you to connect using WAN protocols such as X.25, Frame Relay, PPP, SDLC and HDLC, over leased lines, dial-up lines or ISDN lines.

Model	CPU / Memory / Flash	VHSI Ports	ISDN BRI Ports
Eiconcard S90	25 MHz Motorola 68302 1 MB RAM 1 MB Flash	1	0
Eiconcard S91 S/T	25 MHz Motorola 68302 1 MB RAM 1 MB Flash	1	1
Eiconcard S91 V2	50 MHz Motorola 855T 8MB SDRAM	1	1
Eiconcard S92	33 MHz Motorola 68360 2 MB RAM 1 MB FLASH	2	0
Eiconcard S94 Eiconcard S94/66 MHz	33 MHz Motorola 68360 8 MB RAM 1 MB FLASH	2	0
Eiconcard S94 V2 Eiconcard S94 PCIe	100 MHz Motorola 852T 16 MB SDRAM	2	0

VHSI port

The VHSI port features automatic interface selection. The intelligent controller on the Eiconcard detects the type of cable connected to the port and automatically selects the matching interface.

VHSI ports support full duplex communications over a V.24, V.35, EIA-530, V.36/RS-449, or X.21 interface at speeds up to 2 Mbps per port (depending on the interface).

ISDN BRI port

The ISDN BRI port supports transfer rates up to 64 kbps on each “B” channel and 16 kbps on the “D” channel. It features an integrated S/T interface.

Installing the Eiconcard

If you want the Eiconcard to be available to multiple users on a LAN, install it in the computer that will function as a gateway for the LAN.

1 Prepare the computer

Turn off the computer and disconnect its power cable. Wait at least 30 seconds to ensure that all power has drained from the system. Remove the cover of the computer according to the instructions that came with it.

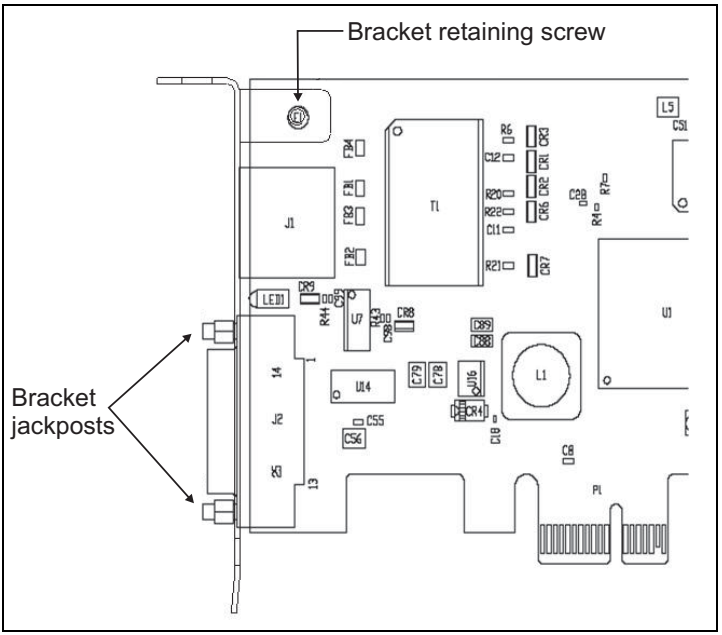
2 Install the Eiconcard

a) Drain static electricity from your body by touching the metal chassis (the unpainted metal at the back of your computer).

b) Locate a slot in your computer that has the same bus type as the Eiconcard. All Eiconcards (except for the Eiconcard S94 PCIe and the Eiconcard C91 PCIe LP) can be installed into either a 32-bit or 64-bit PCI slot. However, only the Eiconcard S94/66 MHz and Eiconcard S94 V2 can take full advantage of a 64-bit slot. See “Technical data” on page 37 for more information on the PCI capability of your card.

The Eiconcard S94 PCIe and Eiconcard C91 PCIe LP must be installed in a PCI express (PCIe) slot. Both cards are compatible with all PCIe compliant slots.

The C91 PCIe LP is a low-profile card. To install it in a full-height slot, you must replace the low-profile bracket that is attached by default with the full-height bracket included in the package. To do this, remove the retaining screw holding the bracket to the PC board, and the two jackposts holding the bracket to the micro-D 25 plug connector. Swap the brackets, and then fasten with the screw and jackposts.



c) Insert the Eiconcard into the slot and fasten it with a screw.

3 Test the Eiconcard

The application software available for the Eiconcard contains a test program to verify the Eiconcard's integrity. Consult the documentation supplied with this software for details.

4 Configure the Eiconcard

Before you can use the Eiconcard, you must configure it to work with your communications software. Consult the documentation supplied with this software for complete instructions on how to configure the Eiconcard.

5 Connect to your external line

You are now ready to connect the Eiconcard to your external line.

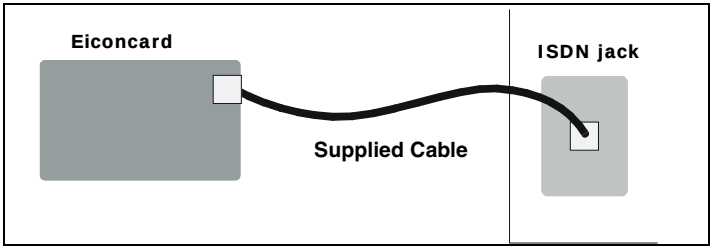
- To set up an ISDN connection, refer to “Making an ISDN connection” on page 14.
- To set up a VHSI connection using a S series Eiconcard, refer to “Making a VHSI connection” on page 16.
- To set up a V.24 connection using a C series Eiconcard, refer to “Making a V.24 Connection” on page 17.

Making an ISDN connection

Before you connect the Eiconcard, check with your ISDN provider to determine if you need an NT1 to terminate your ISDN line. In some countries, the NT1 is installed by your ISDN provider and resides in the central switching office. In other countries, the NT1 must be installed at your premises, either by you or your ISDN provider. You can order an NT1 from Dialogic or from another supplier.

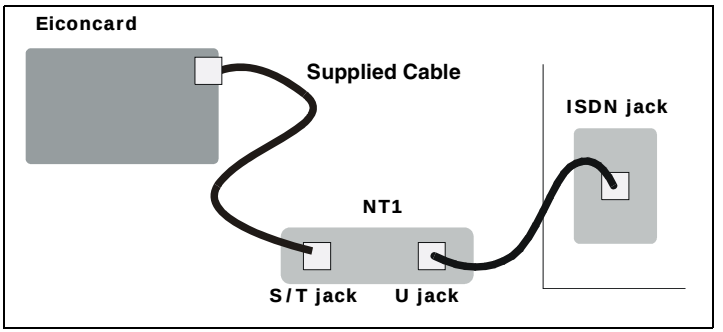
In Europe and most countries worldwide

In Europe and most countries outside of North America and Japan, the NT1 is installed at the central switching office by the ISDN provider. In these areas, the Eiconcard can be connected directly to the ISDN line using the included cable. Plug one end of the cable into the Eiconcard and plug the other end into the ISDN wall jack.



In North America and other countries

In North America and some other countries, the NT1 is installed at your premises with its “U” jack connected to the ISDN wall jack. The Eiconcard can be connected directly to the “S/T” jack on the NT1 using the included cable.



Termination

This section provides instructions to help set up termination scenarios for installations in Australia and North America. Termination requirements vary according to the number of ISDN devices connected to the NT1 and the distance between the ISDN devices and the NT1.

Terminating resistor

If you purchased the Eiconcard in North America, a 100 ohm terminating resistor is included. The terminating resistor is installed by inserting the RJ-45 end of the ISDN cable into the terminating resistor, and then inserting the terminating resistor into an ISDN jack.

Terminating a single ISDN device

If the NT1 is connected to a single Eiconcard, then:

- **If the connection spans 75 meters (250 feet) or more,** set the NT1 to provide 100 ohms of resistance and connect the terminating resistor. Consult the manual provided with the NT1 for more detailed instructions.

  Note: *Some NT1s do not support connections over 75 meters.*

- **If the connection spans less than 75 meters (250 feet)**, set the NT1 to 50 ohms of resistance and do not connect the terminating resistor. Consult the manual provided with the NT1 for more detailed instructions.

Terminating multiple ISDN devices

If the NT1 is connected to more than one Eiconcard or other ISDN device, then follow the instructions below.

- **If the connection spans 75 meters (250 feet) or more,** then the ISDN device at each end of the connection must be set to 100 ohm termination. If the Eiconcard is at one end of the connection, connect the 100 ohm terminating resistor to the end of the ISDN cable. Consult the manuals provided with the other ISDN devices and NT1 for detailed instructions.

  Note: *Some NT1s do not support connections over 75 meters.*

- **If the connection spans less than 75 meters (250 feet),** set the NT1 to 50 ohms of resistance, and do not connect the terminating resistor. Set the other ISDN devices to no termination. Consult the manuals provided with the NT1 and other ISDN devices for more detailed instructions.

Making a VHSI connection

(S series Eiconcards only)

The VHSI port can be used to connect the Eiconcard as a DTE to devices such as Data Service Units (DSUs) that support one of the following interfaces: V.24, V.35, EIA-530, V.36/RS-449, or X.21.

It can also be used to connect the Eiconcard directly to a host computer, or back-to-back with a VHSI port on another Eiconcard.

If multiple VHSI ports are present on an Eiconcard, each port is configured independently.

To use a particular interface, simply install the appropriate cable. The Eiconcard recognizes the cable and automatically prepares the port for that interface.

Consult the documentation which came with your networking software for more information about port configuration.

VHSI cables

The following table lists the most common connections supported by the VHSI port, and specifies the part number of the required Dialogic cable. For information on making your own cables, see “VHSI port specifications” on page 21.

Interface	Connection	Part #
V.24	to V.24 DCE	300-077
	to V.24 DTE	300-078
V.35	to V.35 DCE	300-076
	to V.35 DCE (France)	300-083
EIA-530	to EIA-530 DCE	300-080
V.36/RS-449	to V.36/RS-449 DCE	300-079
X.21	to X.21 DCE	300-081
Direct	to VHSI port on another Eiconcard	300-075

Making a V.24 Connection

(C series Eiconcards only)

The V.24 port can be used to connect the Eiconcard as a DTE to devices that support a V.24 interface, directly to a host computer, or back-to-back with a V.24 port on another Eiconcard.

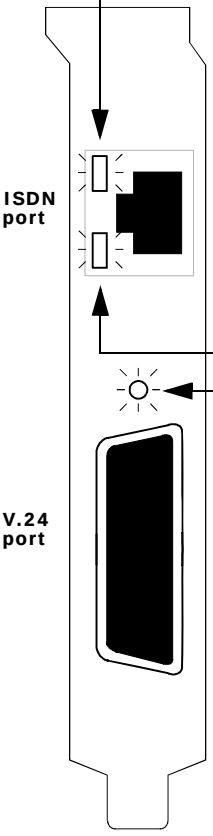
Consult the documentation which came with your networking software for more information about port configuration.

V.24 cables

The following table lists the most common connections supported by the V.24 port, and specifies the part number of the required Dialogic cable. For information on making your own cables, see “V.24 port specifications” on page 36.

Connection	Cables Required	Part #
Eiconcard C90, C91 S/T and C91 V2 to V.24 DCE	V.24 DCE Cable	300-007
Eiconcard C90, C91 S/T and C91 V2 to V.24 DTE	V.24 Null Modem Cable	300-022
C91 PCIe LP to V.24 DCE	V.24 DCE Cable	300-402
C91 PCIe LP to V.24 DTE	V.24 Null Modem Cable	300-401

Status lights Eiconcard C90, C91 S/T, C91 V2, and C91 PCIe LP



ISDN D-channel Status
(Eiconcard C91 S/T, C91 V2, and C91 PCIe LP only)

The D-channel controls the link to your ISDN service provider.

Off..... The line is not active. The cable may not be connected.

Blinking.... The line is active, but a link cannot be established. This may be a symptom of incorrect configuration.

Steady ..... The ISDN line is active and operating normally.

ISDN B-channel Status
(Eiconcard C91 S/T, C91 V2, and C91 PCIe LP only)

The B-channels are used for the link to the remote ISDN device.

Off ..... There is no connection.

Blinking ... Attempting to connect to the remote device.

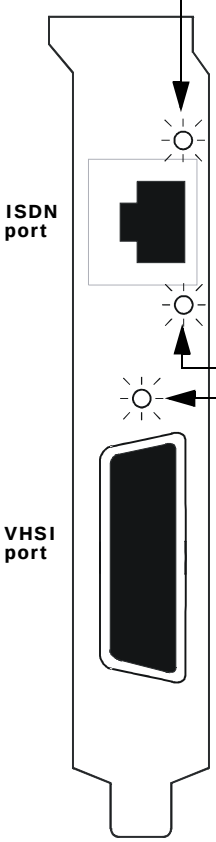
Steady..... The connection is active and able to transmit data.

Configuration Status

This status light illuminates when the Eiconcard is being configured.

Consult the documentation provided with the configuration software for information about this status light.

Status Lights
Eiconcard S91 S/T and S91 V2



ISDN D-channel status

The D-channel controls the link to your ISDN service provider.

Off.....The line is not active. The cable may not be connected.

Blinking ..The line is active, but a link cannot be established. This may be a symptom of incorrect configuration.

Steady ...The ISDN line is active and operating normally.

ISDN B-channel status

The B-channels are used for the link to the remote ISDN device.

Off ..... There is no connection.

Blinking.. Attempting to connect to the remote device.

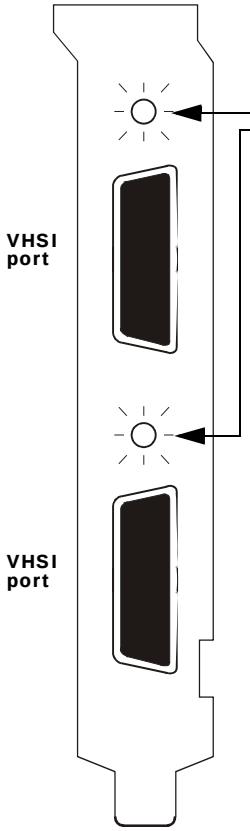
Steady ... The connection is active and able to transmit data.

Configuration status

This status light illuminates when the Eiconcard is being configured.

Consult the documentation provided with the configuration software for information about this status light.

Status Lights Eiconcard S90, S92, S94, S94/66 MHz, S94 V2, and S94 PCIe



Configuration status

This status light illuminates when the Eiconcard and/or port is being configured.

Consult the documentation provided with the configuration software for information about this status light.

Note *The Eiconcard S90 has only one VHSI port*

VHSI port specifications

Each interface on the VHSI port is compliant with the standards listed in Table 1. The rest of this section describes the pinouts that are used to implement the electrical and signaling requirements of each interface. A wiring diagram is also provided for each interface that describes how interface pinouts are mapped to the VHSI port.

Interface	Standard	Compatibility
V.24	CCITT V.24	Signaling
	CCITT V.28	Electrical
	CCITT X.21bis	Electrical and signaling
	EIA RS-232-C	Electrical and signaling
	ISO 2110	Connector type for the DCE side of a V.24 VHSI Modem Cable
V.35	CCITT V.28	Some signals for electrical
	CCITT V.35	Some signals for electrical and signaling
	ISO 2593	Connector type for the DCE side of a V.35 VHSI Modem Cable
EIA-530	RS-422	Electrical
	RS-423	Electrical
	ISO 2110	Connector type for the DCE side of a EIA-530 VHSI Modem Cable
V.36/RS-449	CCITT V.10	Electrical
	CCITT V.11	Electrical
	RS-422	Electrical
	RS-423	Electrical
	ISO 4902	Connector type for the DCE side of a V.36/ RS-449 VHSI Modem Cable
X.21	CCITT X.21	Signaling
	CCITT V.11	Electrical
	CCITT X.27	Electrical
	EIA RS-422-A	Electrical
	ISO 4903	Connector type for the DCE side of an X.21 VHSI Modem Cable

Table 1. Interface compatibility

Cable construction information

If you plan to construct your own VHSI cables, be sure to observe the guidelines given below.

Wire gauge, grounding, and pairing

- Use 28 AWG 7-strand wire with 0.020 - 0.028" insulation.
- The chassis must be grounded both by a drain wire and by the braid; both must be connected to the connector case and shell at each end of the cable. The braid must be connected through its full circumference.
- Wires identified as “twisted pairs” must be paired. If you do not wire twisted pairs correctly, the cable will not work.

Type of connectors

The VHSI port accepts a high density 36-pin male cable connector. The types of connectors used on the interface-specific end of the cable are listed in Table 2.

Interface	Connector
V.35	Type M
V.24	DB25
V.24 (C91 PCIe)	micro-D
V.36/RS-449	DB37
EIA-530	DB25
X.21	DB15

Table 2. Connector types

V.24 DCE interface

A pin-out diagram for the V.24 DCE interface is shown in Figure 1. The signal definitions and names are listed in Table 3.

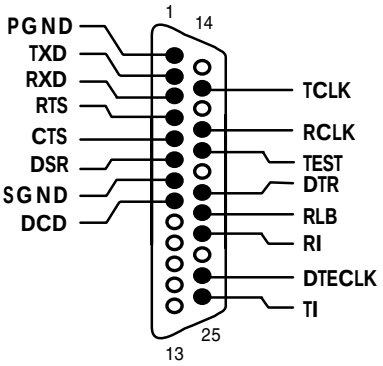


Figure 1. V.24 DCE interface

Pin #	Signal	Name	Direction	CCITT #
1	PGND	Protective Ground	Common	101
2	TXD	Transmit Data	Output	103
3	RXD	Receive Data	Input	104
4	RTS	Request to Send	Output	105
5	CTS	Clear to Send	Input	106
6	DSR	Data Set Ready	Input	107
7	SGND	Signal Ground	Common	102
8	DCD	Data Carrier Detect	Input	109
15	TCLK	Transmit Clock (DCE)	Input	114
17	RCLK	Receive Clock	Input	115
18	TEST	Local Loopback Activation	Output	141
20	DTR	Data Terminal Ready	Output	108
21	RLB	Remote Loopback	Output	140
22	RI	Ring Indicator	Input	125
24	DTECLK	Transmit Clock (DTE)	Output	113
25	TI	Test Indicator	Input	142

Table 3. V.24 DCE interface signals

VHSI—V.24 connections

The wiring diagram in Figure 2 shows the connections required to construct a VHSI—V.24 DCE cable. For additional information required to construct your own cables, see “Cable construction information” on page 22.

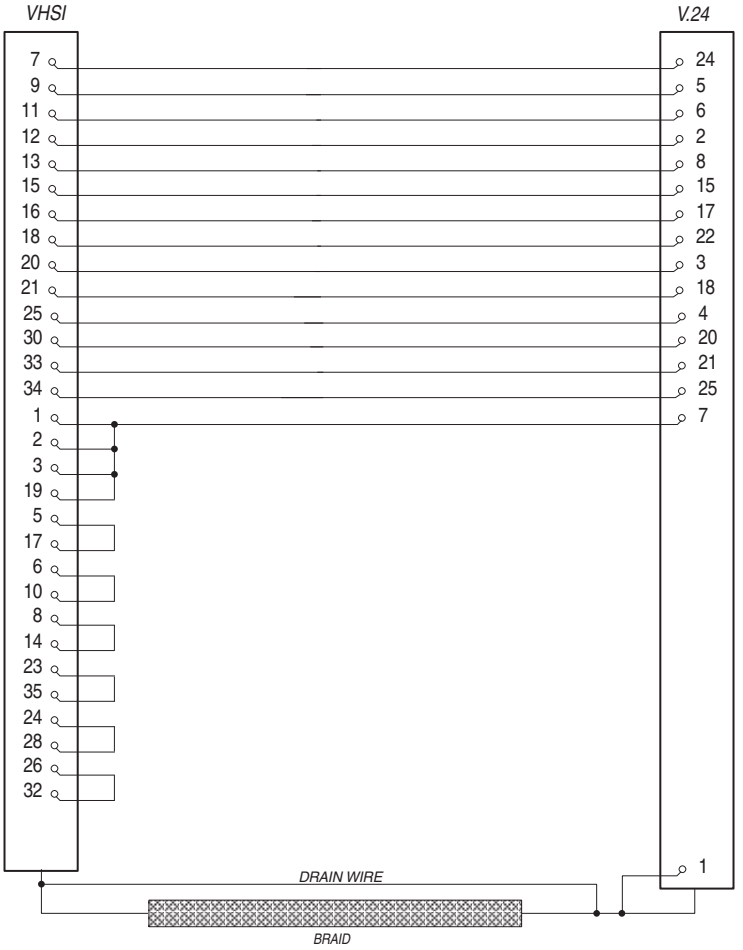


Figure 2. VHSI—V.24 DCE connections

V.24 DTE interface

A pin-out diagram for the V.24 DTE interface is shown in Figure 3. The signal definitions and names are listed in Table 4.

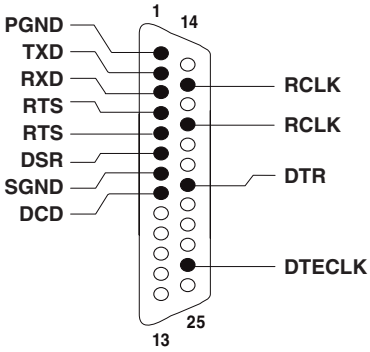


Figure 3. V.24 DTE interface

Pin #	Signal	Name	Direction	CCITT #
1	PGND	Protective Ground	Common	101
2	TXD	Transmit Data	Output	103
3	RXD	Receive Data	Input	104
4	RTS	Request to Send	Output	105
5	RTS	Clear to Send	Input	106
6	DSR	Data Set Ready	Input	107
7	SGND	Signal Ground	Common	102
8	DCD	Data Carrier Detect	Input	109
15	TCLK	Transmit Clock	Input	114
17	RCLK	Receive Clock	Input	115
20	DTR	Data Terminal Ready	Output	108
22	DTECLK	Transmit Clock (DTE)	Output	113

Table 4. V.24 DTE interface signals

VHSI—V.24 connections

The wiring diagram in Figure 4 shows the connections required to construct a VHSI—V.24 DTE cable. For additional information required to construct your own cables, see “Cable construction information” on page 22.

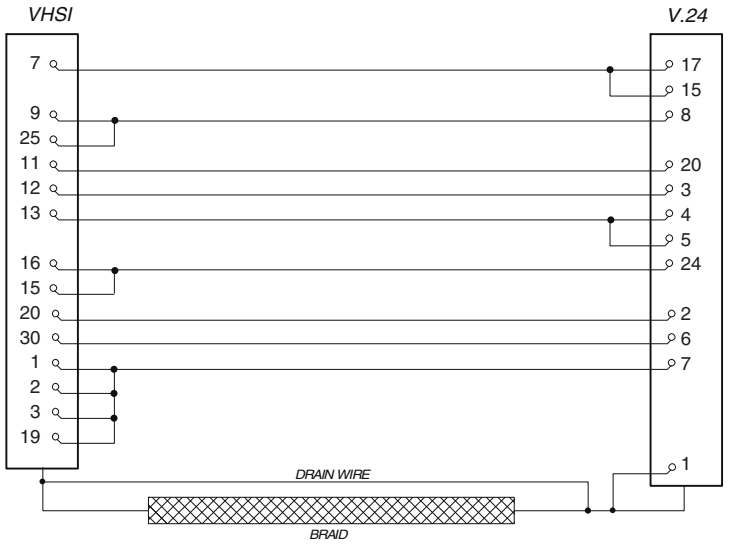


Figure 4. VHSI—V.24 DTE connections

V.35 interface

A pin-out diagram for the V.35 interface is shown in Figure 5. The signal definitions and names are listed in Table 5.

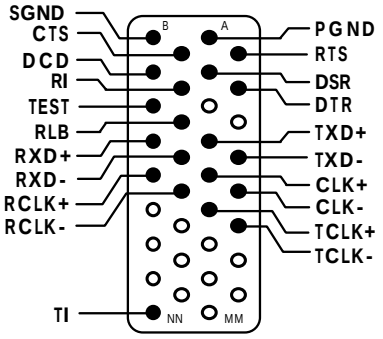


Figure 5. V.35 interface

Pin #	Signal	Name	Direction	CCITT #
A	PGND	Protective Ground	Common	101
B	SGND	Signal Ground	Common	102
C	RTS	Request to Send	Output	105
D	CTS	Clear to Send	Input	106
E	DSR	Data Set Ready	Input	107
F	DCD	Data Carrier Detect	Input	109
H	DTR	Data Terminal Ready	Output	108
J	RI	Ring Indicator	Input	125
L	TEST	Local Loopback Activation	Output	141
N	RLB	Remote Loopback	Output	140
P	TXD+	Transmit Data	Output	103A
R	RXD+	Receive Data	Input	104A
S	TXD-	Transmit Data	Output	103B
T	RXD-	Receive Data	Input	104B
U	CLK+	Transmit Clock (DTE)	Output	113A
V	RCLK+	Receive Clock (DCE)	Input	115A
W	CLK-	Transmit Clock (DTE)	Output	113B
X	RCLK-	Receive Clock (DCE)	Input	115B
Y	TCLK+	Transmit Clock (DCE)	Input	114A
AA	TCLK-	Transmit Clock (DCE)	Input	114B
NN	TI	Test Indicator	Input	142

Table 5. V.35 interface signals

VHSI—V.35 connections

The wiring diagram in Figure 6 shows the connections required to construct a VHSI—V.35 cable. For additional information required to construct your own cables, see “Cable construction information” on page 22.

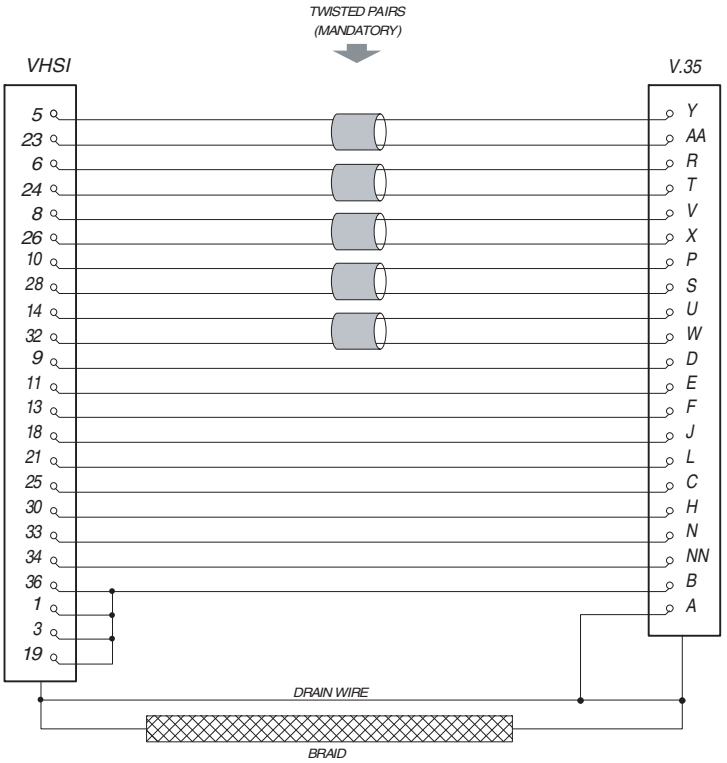


Figure 6. VHSI—V.35 connections

EIA-530 interface

A pin-out diagram for the EIA-530 interface is shown in Figure 7. The signal definitions and names are listed in Table 6.

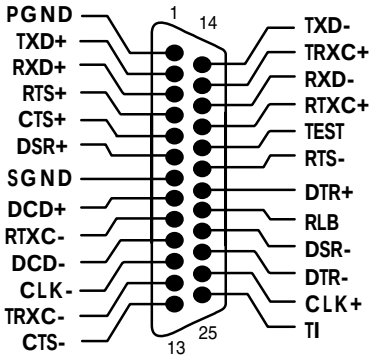


Figure 7. EIA-530 interface

Pin #	Signal	Name	Direction	CCITT #	EIA #
1	PGND	Protective Ground	Common	101	-
2	TXD+	Transmit Data	Output	103A	BA(A)
3	RXD+	Receive Data	Input	104A	BB(A)
4	RTS+	Request to Send	Output	105A	CA(A)
5	CTS+	Clear to Send	Input	106A	CB(A)
6	DSR+	Data Set Ready	Input	107A	CC(A)
7	SGND	Signal Ground	Common	102B	AB
8	DCD+	Data Carrier Detect	Input	109A	CF(A)
9	RTXC-	Receive Clock (DCE)	Input	115B	DD(B)
10	DCD-	Data Carrier Detect	Input	109B	CF(B)
11	CLK-	Transmit Clock (DTE)	Output	113B	DA(B)
12	TRXC-	Transmit Clock (DCE)	Input	114B	DB(B)
13	CTS-	Clear to Send	Output	106B	CB(B)
14	TXD-	Transmit Data	Output	103B	BA(B)
15	TRXC+	Transmit Clock (DCE)	Input	114A	DB(A)
16	RXD-	Receive Data	Input	104B	BB(B)
17	RTXC+	Receive Clock (DCE)	Input	115A	DD(A)
18	TEST	Local Loopback	Output	141A	LL
19	RTS-	Request to Send	Output	105B	CA(B)
20	DTR+	Data Terminal Ready	Output	108A	CD(A)
21	RLB	Remote Loopback	Output	140A	RL
22	DSR-	Data Set Ready	Input	107B	CC(B)
23	DTR-	Data Terminal Ready	Output	108B	CD(B)
24	CLK+	Transmit Clock (DTE)	Output	113A	DA(A)
25	TI	Test Indicator	Input	142A	TM

Table 6. EIA-530 interface signals

VHSI—EIA-530 connections

The wiring diagram in Figure 8 shows the connections required to construct a VHSI—EIA-530 cable. For additional information required to construct your own cables, see “Cable construction information” on page 22.

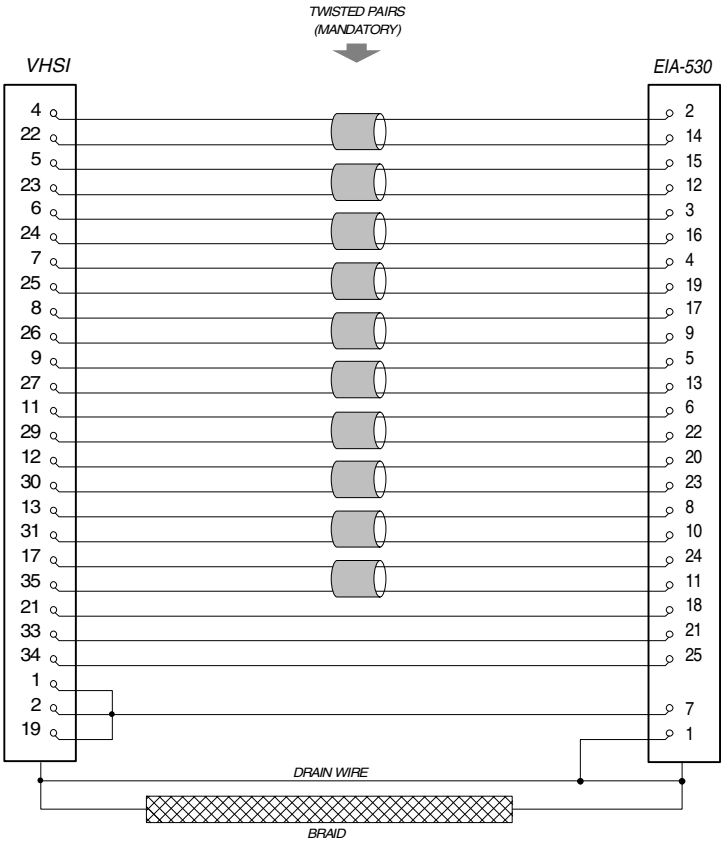


Figure 8. VHSI—EIA-530 connections

V.36/RS-449 interface

A pin-out diagram for the V.36/RS-449 interfaces is shown in Figure 9. The signal definitions and names are listed in Table 7.

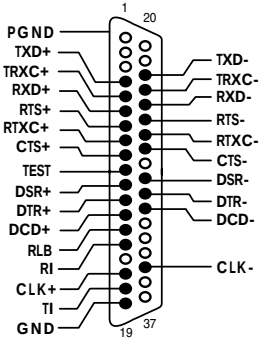


Figure 9. V.36/RS-449 interface

Pin #	Signal	Name	Direction	CCITT #
Case	PGND	Protective Ground	Common	101
4	TXD+	Transmit Data	Output	103A
5	TRXC+	Transmit Clock (DCE)	Input	114A
6	RXD+	Receive Data	Input	104A
7	RTS+	Request to Send	Output	105A
8	RTXC+	Receive Clock (DCE)	Input	115A
9	CTS+	Clear to Send	Input	106A
10	TEST	Local Loopback Activation	Output	141A
11	DSR+	Data Set Ready	Input	107A
12	DTR+	Data Terminal Ready	Output	108A
13	DCD+	Data Carrier Detect	Input	109A
14	RLB	Remote Loopback	Output	140A
15	RI	Ring Indicator	Input	125A
17	CLK+	Transmit Clock (DTE)	Output	113A
18	TI	Test Indicator	Input	142A
19	GND	DTE Common Return	Common	102A/B
22	TXD-	Transmit Data	Output	103B
23	TRXC-	Transmit Clock (DCE)	Input	114B
24	RXD-	Receive Data	Input	104B
25	RTS-	Request to Send	Output	105B
26	RTXC-	Receive Clock (DCE)	Input	115B
27	CTS-	Clear to Send	Input	106B
29	DSR-	Data Set Ready	Input	107B
30	DTR-	Data Terminal Ready	Output	108B
31	DCD-	Data Carrier Detect	Input	109B
35	CLK-	Transmit Clock (DTE)	Output	113B

Table 7. V.36/RS-449 Interface Signals

VHSI—V.36/RS-449 connections

The wiring diagram in Figure 10 shows the connections required to construct a VHSI—V.36/RS-449 cable. For additional information required to construct your own cables, see “Cable construction information” on page 22.

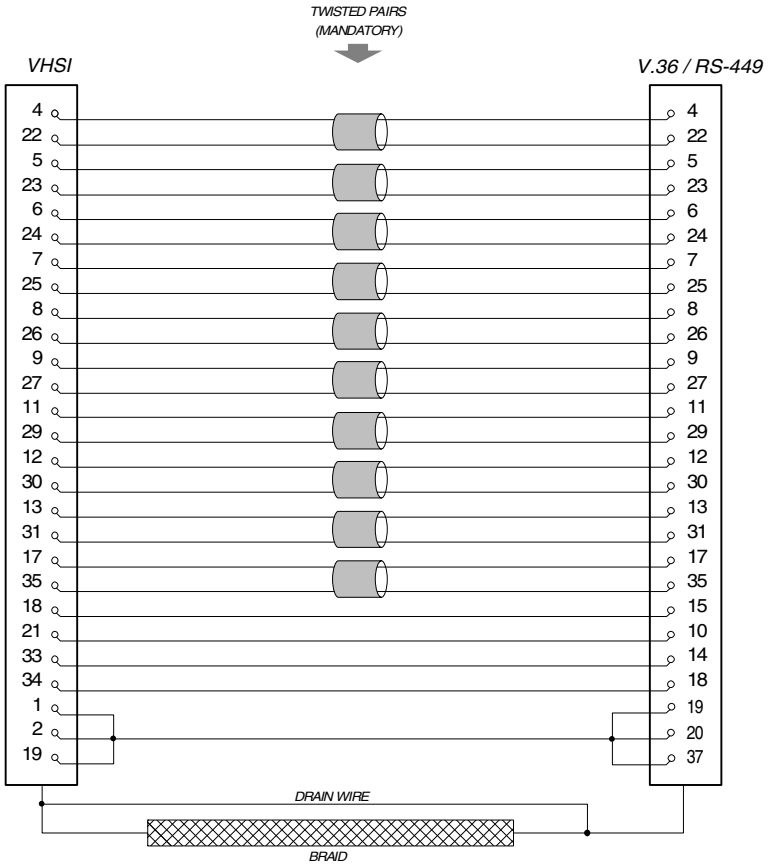


Figure 10. VHSI—V.36/RS-449 connections

X.21 interface

A pin-out diagram for the X.21 interface is shown in Figure 11. The signal definitions and names are listed in Table 8.

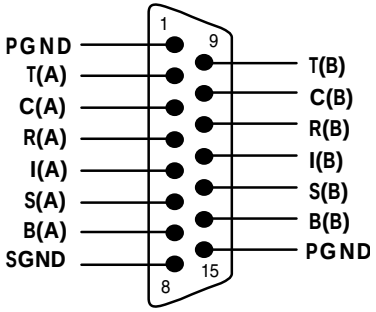


Figure 11. X.21 interface

Pin #	Signal	Name	Direction	CCITT #
1/15	PGND	Protective Ground	Common	101
2	T(A)	Transmit Data (+)	Output	103A
3	C(A)	Control Signal (+)	Output	105A
4	R(A)	Receive Data (+)	Input	104A
5	I(A)	Indication (+)	Input	109A
6	S(A)	Signal Element Timing (+)	Input	115A
7	B(A)	Byte Timing (+)	Input	114A
8	SGND	Signal Ground	Common	102
9	T(B)	Transmit Data (-)	Output	103B
10	C(B)	Control Signal (-)	Output	105B
11	R(B)	Receive Data (-)	Input	104B
12	I(B)	Indication (-)	Input	109B
13	S(B)	Signal Element Timing (-)	Input	115B
14	B(B)	Byte Timing (-)	Input	114B

Table 8. X.21 interface signals

VHSI—X.21 connections

The wiring diagram in Figure 12 shows the connections required to construct a VHSI—X.21 cable. For additional information required to construct your own cables, see “Cable construction information” on page 22.

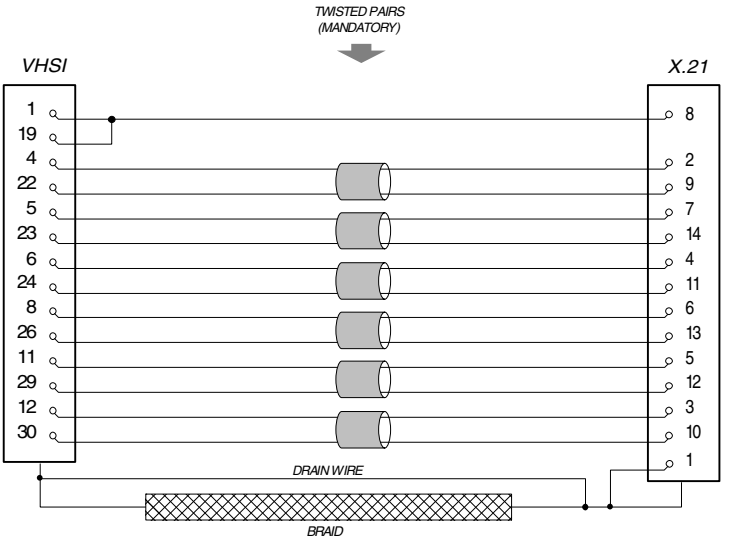


Figure 12. VHSI—X.21 Connections

Back-to-back connections

The wiring diagram in Figure 13 shows the connections required to construct a back-to-back VHSI—VHSI cable. Back-to-back operations are conducted through the V.36 interface. For additional information required to construct your own cables, see “Cable construction information” on page 22.

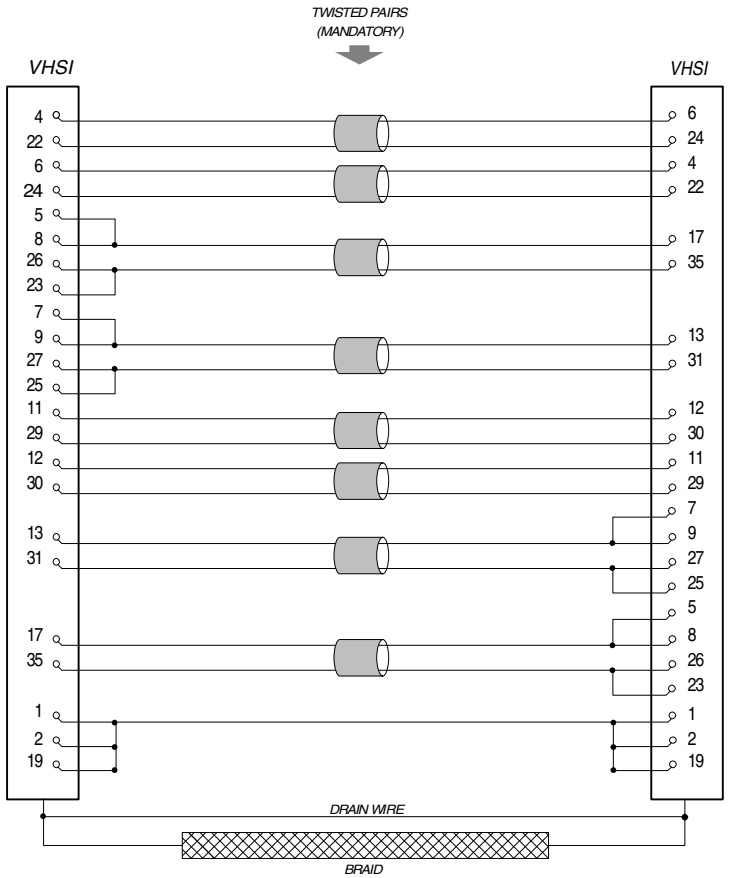


Figure 13. VHSI—VHSI connections

V.24 port specifications

V.24 DCE Interface

The V.24 port is wired as a V.24 DCE interface as shown in Figure 14 for the Eiconcard C90, C91 S/T, and C91 V2, and Figure 15 for the Eiconcard C91 PCIe LP. The signal definitions and names are listed in Table 9.

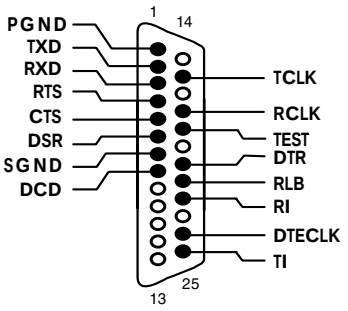


Figure 14. DB-25 female connector X.24 DCE interface

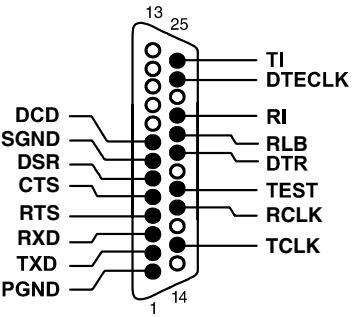


Figure 15. Micro-D 25 plug connector X.24 DCE interface

Pin #	Signal	Name	Direction	CCITT #
1	PGND	Protective Ground	Common	101
2	TXD	Transmit Data	Output	103
3	RXD	Receive Data	Input	104
4	RTS	Request to Send	Output	105
5	CTS	Clear to Send	Input	106
6	DSR	Data Set Ready	Input	107
7	SGND	Signal Ground	Common	102
8	DCD	Data Carrier Detect	Input	109
15	TCLK	Transmit Clock (DCE)	Input	114
17	RCLK	Receive Clock	Input	115
18	TEST	Local Loopback Activation	Output	141
20	DTR	Data Terminal Ready	Output	108
21	RLB	Remote Loopback	Output	140
22	RI	Ring Indicator	Input	125
24	DTECLK	Transmit Clock (DTE)	Output	113
25	TI	Test Indicator	Input	142

Table 9. V.24 DCE Interface Signals

Technical specifications Eiconcard C series

Technical data

Model	CPU / Memory / Flash	V.24 Ports	ISDN BRI Ports	Connector Key	PCI	Bus (up to)
Eiconcard C90	16 MHz Motorola 68302 / 512 KB RAM / 512 KB Flash	1	N/A	5V	2.1	32 bits 33 MHz
Eiconcard C91 S/T	16 MHz Motorola 68302 / 512 KB RAM / 512 KB Flash	1	1	5V	2.1	32 bits 33 MHz
Eiconcard C91 PCie LP	50 MHz Motorola 852T / 8 MB SDRAM	1	1	PCI Express	1.0a	x1
Eiconcard C91 V2	50 MHz Motorola 850 / 8 MB SDRAM	1	1	3.3V or 5V	2.2	32 bits 66 MHz

Hardware Installation

- Automatic configuration of interrupt request level setting and I/O address
- 32-bit I/O access

External Interface

Model	External Interface
Eiconcard C90	One DB-25 female port.
Eiconcard C91 S/T Eiconcard C91 V2	One DB-25 female port and one RJ-45 port.
Eiconcard C91 PCIe LP	One micro-D plug and one RJ-45 port.

V.24 port

- DB-25 female connector, supporting V.24 interface (EIA RS-232-C)
- NRZ, NRZI, and FM data encoding
- Internal or external clocking (DTE or DCE) or split (transmit internal, receive external)

Performance

- 64 kbps full duplex on V.24 port
- 128 kbps (ISDN BRI port (over the “D” channel or the “B” channels))

Power Requirements

Eiconcard	+5V	+12V	-12V
Eiconcard C90	1 A	50 mA	50 mA
Eiconcard C91 S/T	1 A	50 mA	50 mA
Eiconcard C91 V2	.5 A	50 mA	50 mA
Eiconcard C91 PCIe LP	N/A	400 mA	N/A

Note *The Eiconcard C91 PCIe LP does not use 3.3V power and always draws less than 10W from the bus connector supply.*

Power Consumption

Warning: Ensure that the power supply will not be overloaded. Maximum power consumption of the Eiconcard is stated above. The user should ensure that the total power drawn by the host computer, the Eiconcard, and any other peripherals, does not exceed the capability of the host power supply unit.

Environmental Requirements

- Operating temperature: 0°C to 50°C
- Operating humidity: 0 to 90% (non-condensing)
- Barometric operating pressure: 86 to 106 kPascals
- Maximum tolerance in power supply variation: +5% to -5%

Technical specifications Eiconcard S series

Technical data

Model	CPU/Memory/ Flash	VHSI Ports	ISDN BRI Ports	Connector Key	PCI	Bus (up to)
Eiconcard S90	25 MHz Motorola 68302 /1 MB RAM / 1 MB Flash	1	N/A	5V	2.1	32 bits 33 MHz
Eiconcard S91 S/T	25 MHz Motorola 68302 / 1 MB RAM / 1 MB Flash	1	1	5V	2.1	32 bits 33 MHz
Eiconcard S91 V2	50 MHz Motorola 855T / 8MB SDRAM	1	1	3.3V or 5V	2.2	32 bits 66 MHz
Eiconcard S92	33 MHz Motorola 68360 / 2 MB RAM / 1 MB FLASH	2	N/A	5V	2.1	32 bits 33 MHz
Eiconcard S94	33 MHz Motorola 68360 / 8 MB RAM / 1 MB FLASH	2	N/A	5V	2.1	32 bits 33 MHz
Eiconcard S94/66 MHz	33 MHz Motorola 68360 / 8 MB RAM / 1 MB FLASH	2	N/A	3.3V or 5V	2.2	64 bits 66 MHz
Eiconcard S94 V2	100 MHz Motorola 852T / 16 MB SDRAM	2	N/A	3.3V or 5V	2.2	64 bits 66 MHz
Eiconcard S94 PCIe	100 MHz Motorola 852T / 16 MB SDRAM	2	N/A	PCI Express	1.0a	x1

Hardware installation

- Automatic configuration of interrupt request level setting and I/O address
- 32-bit I/O access

Performance

- 2 Mbps full duplex per physical VHSI port
- 128 kbps per ISDN BRI port (over the “D” channel or the “B” channels)

Environmental requirements

- Operating temperature: 0°C to 50°C
- Operating humidity: 0 to 90% (non-condensing)
- Barometric operating pressure: 86 to 106 kPascals
- Maximum tolerance in power supply variation: +5% to -5%

External interface

Model	External Interface
Eiconcard S90	One 36-pin “D Type” female ports.
Eiconcard S91S/T	One 36-pin “D Type” female port and one RJ-45 port.
Eiconcard S91 V2	One 36-pin “D Type” female port and one RJ-45 port.
Eiconcard S92	Two 36-pin “D Type” female ports.
Eiconcard S94	Two 36-pin “D Type” female ports.
Eiconcard S94/66 MH	Two 36-pin “D Type” female ports.
Eiconcard S94 V2	Two 36-pin “D Type” female ports.
Eiconcard S94 PCIe	Two 36-pin “D Type” female ports.

VHSI ports

- VHSI ports connect to 36-pin high-density male connectors
- Support for V.24, V.35, EIA-530, and V.36/RS-449
- X.21 with V.11 (X.27) signaling
- Internal or external clocking (DTE or DCE) or split (transmit internal, receive external)

Power requirements

Eiconcard	+3.3V	+5V	+12V	-12V
Eiconcard S90	—	1 A	45 mA	50 mA
Eiconcard S91S/T	—	1 A	45 mA	50 mA
Eiconcard S91 V2	—	.7 A	—	—
Eiconcard S92	—	1.8 A	45 mA	50 mA
Eiconcard S94	—	1.8 A	45 mA	50 mA
Eiconcard S94/66MHz	—	1.8 A	45 mA	50 mA
Eiconcard S94 V2	—	.5 A	—	—
Eiconcard S94 PCIe	.4 A	—	—	—

Note *The Eiconcard S94 PCIe always draws less than 10W from the bus connector supply.*

Power consumption

Warning: Check that the power supply will not be overloaded. Maximum power consumption of the Eiconcard is stated above. The user should check that the total power drawn by the host computer, the Eiconcard, and any other peripherals, does not exceed the capability of the host power supply unit.

International regulatory information

Regulatory information for the USA

WARNING. Changes or modifications to this unit not expressly approved by Dialogic Corporation could void the user's authority to operate the equipment.

Declaration of conformity

We:

Dialogic Corporation
1515 Route 10
Parsippany
NJ 07054
Tel: +1 (973) 967-6000

Declare under our sole legal responsibility that the products listed below to which this declaration relates, are in conformity with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

FCC Part 68 notice

(for Eiconcards with ISDN ports only)

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA.

On the bottom of this equipment is a label that contains, among other information, a FCC part 68 registration number or a product identifier in the format US: AAAEQ##TXXXX. If requested, this information must be provided to the telephone company.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant.

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.

For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US: AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, please contact us for repair and warranty information. If the trouble is causing harm to the telephone network, the telephone company may request you to remove the equipment from the network until the problem is resolved.

This unit contains no user-serviceable parts.

Connection to party lines is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

	Facility Interface code	Digital Reg. code	Service Order code	USOC Jack Type
S/T	021S5	XD	6.0N	N/A

Suppliers declaration of conformity

Dialogic's declaration of conformity can be viewed at:

http://www.dialogic.com/declarations

Regulatory information for Canada

NOTICE: This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC: , before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.

NOTICE: Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Warning: For your safety, follow these steps before you remove the cover from your computer:
1. Turn off the power to your computer and all peripheral devices.
2. Disconnect the power cable.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

For their own protection, users should ensure that any electrical ground connections of the power utility, telephone lines and internal metallic water pipe system are connected together. This precaution is particularly important in rural areas.

Warning: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

The Dialogic Declaration of Conformity can be viewed at:

http://www.dialogic.com/declarations

Regulatory information for Europe

CE EU declaration of conformity

Dialogic Corporation declares that this equipment is in compliance with the Radio and Telecommunication Terminal Equipment directive 1999/5/EC with requirements covering the Electromagnetic Compatibility Directive 89/336/EEC and the Low Voltage Directive 2006/95/EC. A detailed declaration of conformity for this product can be found at: http://www.dialogic.com/worldwide/about/declarations/default.htm

CS: Dialogic tímto prohlašuje, že tento ITE je ve shodì se základními požadavky a dalšími pøíslusnými ustanoveními smìrnice 1999/5/ES.

DA: Undertegnede Dialogic erklærer herved, at følgende udstyr ITE overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.

DE: Hiermit erklärt Dialogic, dass sich das Gerät ITE in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen relevanten Bestimmungen der Richtlinie 1999/5/EG befindet.

EL: ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Dialogic ΔΗΛΩΝΕΙ ΟΤΙ ΙΤΕ ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.

EN: Hereby, Dialogic, declares that this ITE is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

ES: Por medio de la presente Dialogic declara que el ITE cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/EC.

ET: Käesolevaga kinnitab Dialogic seadme ITE vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.

FI: Dialogic vakuuttaa täten että ITE tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien diretiivin muiden ehtojen mukainen.

FR: Par la présente Dialogic déclare que l'appareil ITE est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.

HU: Alulírott, Dialogic nyilatkozom, hogy a ITE megfelel a vonatkozó alapvetõ követelményeknek és az 1999/5/EC irányelv egyéb elõírásainak.

IC: Hér með lýsir Dialogic yfir því að ITE er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC.

IT: Con la presente Dialogic dichiara che questo ITE è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

LT: Šiuo Dialogic deklaruoja, kad šis ITE atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.

LV: Ar šo Dialogic deklarē, ka ITE atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.

MT: Hawnhekk, Dialogic, jiddikjara li dan ITE jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħġrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.

NL: Hierbij verklaart Dialogic dat het toestel ITE in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.

NO: Dialogic erklærer herved at utstyret ITE er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

PL: Dialogic niniejszym oświadcza, że ITE spełnia wszystkie istotne wymagania i odpowiednie ustalenia dyrektywy 1999/5/EC.

PT: Dialogic declara que este ITE está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

SL: Dialogic izjavlja, da je ta ITE v skladu z bistvenimi zahtevami in ostalimi relevantnimi doloèili direktive 1999/5/ES.

SK: Dialogic týmto vyhlasuje, že ITE spåòa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.

SV: Härmed intygar Dialogic att denna ITE står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

A detailed R&TTE Declaration for this product can be found at:
http://www.dialogic.com/declarations

Safety status: SELV

No voltages within this equipment exceed SELV voltages. All interconnection points and ports are SELV.

User/Installer instructions for the United Kingdom

Important Safety Considerations When Installing Into A Host Computer System

The Eiconcard is a single PCI card.

Installation Within A Spare Slot Position

Warning: It is essential that, when other option cards are introduced which use or generate a hazardous voltage, the minimum creepages and clearances specified in the table below are maintained. Suitable user protection to ensure compliance with EN60950/A4 should be present on the card. A hazardous voltage is one which exceeds 42.4V peak a.c or 60V d.c. If you have any doubt, seek advice from a competent engineer before installing other adapters into the host equipment.

The equipment must be installed such that with the exception of the connections to the host, clearance and creepage distances shown in the table below are maintained between the card and any other assemblies which use or generate a voltage shown in the table below.

Clearance X mm	Creepage Y mm	Voltage used or generated by other parts of the host or expansion card Vrms or Vdc
2.0	2.4 (3.8)	up to 50
2.6	3.0 (4.8)	up to 125
4.0	5.0 (8.0)	up to 250
4.0	6.4 (10.0)	up to 300

Table 10. Creepage Distances

The larger distance shown in parentheses applies where the local environment within the host is subject to conductive pollution or dry non-conductive pollution which could become conductive due to condensation. Failure to maintain these minimum distances would invalidate the approval.

The clearance distance X is the shortest distance in air between two points. The creepage path Y (along surfaces) is the shortest distance between the same two points.

Regulatory information for Australia

WARNING

This customer equipment is to be installed and maintained by service personnel as defined by AS/NZS 3260 Clause 1.2.14.3 Service Personnel. It may be hazardous if your computer is not properly plugged in and grounded.

IMPORTANT

This equipment will be inoperable when mains power fails.

- This customer equipment shall only be installed in a PC that requires the use of a tool to gain access to internal parts (e.g. this customer equipment must not be installed in a PC with a 'flip lid').
- Proper installation of the Eiconcard requires that it is screwed to the metal backplate of the computer. This ensures proper grounding, which is necessary for safety purposes.
- This customer equipment may only be installed in host equipment where there is at least 2 mm of air gap between the customer equipment and adjacent boards (PCBs).
- Only compliant line cord set(s) shall be used as replacements with this customer equipment.

Declaration of Conformity

No: D0023

Revision 01

The equipment described below is declared to be in conformity with the following applicable national and international standards. The conformity is valid ONLY when the equipment is used in a manner consistent with the manufacturer's recommendations and the reference documents.

Equipment Type(s): Eiconcard C91 V2

Document No / Edition /Date	Title
IEC 60950 – 3 Edition (1999)	Safety of Information Technology Equipment
EN 60950-1: 2001	Safety of Information Technology Equipment (see additional information)
FCC, 47 CFR Part 15, Class B digital device	Radio Frequency Devices - Subpart B - Unintentional Radiators
ICES-003 Issue 4 - Feb 2004, Class B	Interference-Causing Equipment Standards - Digital Apparatus
EN 55022: 1998, Class B Limit, A1: 2000	Information Technology Equipment - Radio Disturbance Characteristics
EN 55024: 1998, A1: 2001	Information Technology Equipment - Immunity Characteristics
47 CFR part 68, TIA/EIA/IS-968	Technical Requirements for Connection of Terminal Equipment to the Telephone Network
CS-03 Issue 8 Part VI	Specification for Terminal Equipment, Terminal Systems, Network Protection Devices, Connection Arrangements
TBR3: Nov 95, A1: Dec 97	Attachment requirements for terminal equipment to connect to a ISDN using ISDN basic access
AS/NZS 60950: 2000, A1: 2003	Safety of Information Technology Equipment
ACA TS31: 2001	Requirements for ISDN Basic Access Interface

Additional information:	CSA report # EN 163217-1512426 covers Eiconcard C91 V2
Australia test reports:	Nemko report 3R07047, dated 12/05/2003 covers EN55022
	Nemko report 6S65295AU1, dated 05/29/2006 covers AS/NZS 60950
	Layer 1 Eicon report, dated 17/04/03, NETC report # 28114386/3/IT0, dated 24/01/2000 covers AS/ACIF S031

Regions:

European Economic Area (EEA): Dialogic Corporation (address below) declares the equipment in compliance with the essential requirements of EC Council Directives: 1999/5/EC - R&TTE: 2006/95/EC - Safety/LVD: 89/336/EEC – EMC
USA: Dialogic Corporation (address below) make this SDoC as Responsible Party for equipment registered with ACTA as number: US: E3SXDNAN800-812
Canada: Dialogic Corporation (address below) is the Declaring Party for equipment registered with Industry Canada as number: IC: 885E-803005
Australia / New Zealand: Supplier Code N964 [Dialogic Pty Ltd. Level 12, 1 Pacific Highway North Sydney NSW 2060] ACN: 064 824 899
Any other region where the Regulatory Requirements are satisfied by compliance to the standards declared above.

This Declaration of Conformity is issued by Dialogic Corporation, which is solely responsible for the declared compliance.

Company Address:

Dialogic Corporation
9800 Cavendish 5th floor
Montreal, Quebec
Canada, H4M 2V9

Authorized signature, name and function:

Gaetan Hogue - Approvals Manager
Date: 25, January, 2007

Dialogic Distribution Limited, our location in Europe operates from:
Unit 4034 Kingswood Avenue Citywest Business Campus, Saggart, Co. Dublin, Ireland.

Copies of this Declaration of Conformity may be downloaded at http://www.dialogic.com/declarations

Declaration of Conformity

No: D0024

Revision 01

The equipment described below is declared to be in conformity with the following applicable national and international standards. The conformity is valid ONLY when the equipment is used in a manner consistent with the manufacturer's recommendations and the reference documents.

Equipment Type(s): Eiconcard S91 V2

Document No / Edition /Date	Title
IEC 60950 – 3 Edition (1999)	Safety of Information Technology Equipment
EN 60950-1: 2001	Safety of Information Technology Equipment (see additional information)
FCC, 47 CFR Part 15, Class B digital device	Radio Frequency Devices - Subpart B - Unintentional Radiators
ICES-003 Issue 4 - Feb 2004, Class B	Interference-Causing Equipment Standards - Digital Apparatus
EN 55022: 1998, Class B Limit, A1: 2000	Information Technology Equipment - Radio Disturbance Characteristics
EN 55024: 1998, A1: 2001	Information Technology Equipment - Immunity Characteristics
47 CFR part 68, TIA/EIA/IS-968	Technical Requirements for Connection of Terminal Equipment to the Telephone Network
CS-03 Issue 8 Part VI	Specification for Terminal Equipment, Terminal Systems, Network Protection Devices, Connection Arrangements
TBR3: Nov 95, A1: Dec 97	Attachment requirements for terminal equipment to connect to a ISDN using ISDN basic access
AS/NZS 60950: 2000, A1: 2003	Safety of Information Technology Equipment
ACA TS31: 2001	Requirements for ISDN Basic Access Interface

Additional information:	CSA report # EN 163217-1512426 covers Eiconcard S91 V2
Australia test reports:	Nemko report 3R06046, dated 06/01/2003 covers EN55022
	Nemko report 6S65295AU1, dated 05/29/2006 covers AS/NZS 60950
	Layer 1 Eicon report, dated 17/04/03, NETC report # 28/101907/2/IT8, dated 15/04/1998 covers AS/ACIF S031

Regions:

European Economic Area (EEA): Dialogic Corporation (address below) declares the equipment in compliance with the essential requirements of EC Council Directives: 1999/5/EC - R&TTE: 2006/95/EC - Safety/LVD: 89/336/EEC – EMC
USA: Dialogic Corporation (address below) make this SDoC as Responsible Party for equipment registered with ACTA as number: US: E3SXDNAN800-757
Canada: Dialogic Corporation (address below) is the Declaring Party for equipment registered with Industry Canada as number: IC: 885E-803018
Australia / New Zealand: Supplier Code N964 [Dialogic Pty Ltd. Level 12, 1 Pacific Highway North Sydney NSW 2060] ACN: 064 824 899
Any other region where the Regulatory Requirements are satisfied by compliance to the standards declared above.

This Declaration of Conformity is issued by Dialogic Corporation, which is solely responsible for the declared compliance.

Company Address:

Dialogic Corporation
9800 Cavendish 5th floor
Montreal, Quebec
Canada, H4M 2V9

Authorized signature, name and function:

Gaetan Hogue - Approvals Manager
Date: 25, January, 2007

Dialogic Distribution Limited, our location in Europe operates from:
Unit 4034 Kingswood Avenue Citywest Business Campus, Saggart, Co. Dublin, Ireland.

Copies of this Declaration of Conformity may be downloaded at http://www.dialogic.com/declarations

Declaration of Conformity

No: D0025

Revision 01

The equipment described below is declared to be in conformity with the following applicable national and international standards. The conformity is valid ONLY when the equipment is used in a manner consistent with the manufacturer's recommendations and the reference documents.

Equipment Type(s): Eiconcard S94 V2

Document No / Edition /Date	Title
IEC 60950 –1: 2001	Safety of Information Technology Equipment
EN 60950-1: 2001	Safety of Information Technology Equipment
FCC, 47 CFR Part 15, Class B digital device	Radio Frequency Devices - Subpart B - Unintentional Radiators
ICES-003 Issue 4 - Feb 2004, Class B	Interference-Causing Equipment Standards - Digital Apparatus
EN 55022: 1998, Class B Limit,A1: 2000, A2: 2003	Information Technology Equipment - Radio Disturbance Characteristics
EN 55024: 1998, A1: 2001, A2: 2003	Information Technology Equipment - Immunity Characteristics
AS/NZS 60950: 2000, A1: 2003	Safety of Information Technology Equipment

Additional information:	
Australia test reports:	Nemko report 6R60518, dated 27/02/2006 covers EN55022
	Nemko report 6S60518AU1, dated 1002/2006 covers AS/NZS 60950

Regions:

European Economic Area (EEA): Dialogic Corporation (address below) declares the equipment in compliance with the essential requirements of EC Council Directives: 1999/5/EC - R&TTE: 2006/95/EC - Safety/LVD: 89/336/EEC – EMC
USA
Canada
Australia / New Zealand: Supplier Code N964 [Dialogic Pty Ltd. Level 12, 1 Pacific Highway North Sydney NSW 2060] ACN: 064 824 899
Any other region where the Regulatory Requirements are satisfied by compliance to the standards declared above.

This Declaration of Conformity is issued by Dialogic Corporation, which is solely responsible for the declared compliance.

Company Address:

Dialogic Corporation
9800 Cavendish 5th floor
Montreal, Quebec
Canada, H4M 2V9

Authorized signature, name and function:

Gaetan Hogue - Approvals Manager
Date: 25, January, 2007

Dialogic Distribution Limited, our location in Europe operates from:
Unit 4034 Kingswood Avenue Citywest Business Campus, Saggart, Co. Dublin, Ireland.

Copies of this Declaration of Conformity may be downloaded at http://www.dialogic.com/declarations

Declaration of Conformity

No: D0026

Revision 01

The equipment described below is declared to be in conformity with the following applicable national and international standards. The conformity is valid ONLY when the equipment is used in a manner consistent with the manufacturer's recommendations and the reference documents.

Equipment Type(s): Eiconcard S94 PCIe

Document No / Edition /Date	Title
IEC 60950-1: 2001	Safety of Information Technology Equipment
EN 60950-1: 2001	Safety of Information Technology Equipment
FCC, 47 CFR Part 15, Class B digital device	Radio Frequency Devices - Subpart B - Unintentional Radiators
ICES-003 Issue 4 - Feb 2004, Class B	Interference-Causing Equipment Standards - Digital Apparatus
EN 55022: 1998, Class B Limit, A1: 2000, A2: 2003	Information Technology Equipment - Radio Disturbance Characteristics
EN 55024: 1998, A1: 2001, A2: 2003	Information Technology Equipment - Immunity Characteristics
AS/NZS 60950: 2000, A1: 2003	Safety of Information Technology Equipment

Additional information:	
Australia test reports:	Nemko report 6R64886, dated 01/05/2006 covers CISPR22
	Nemko report 6S60518AU1, dated 1002/2006 covers AS/NZS 60950

Regions:

European Economic Area (EEA) :Dialogic Corporation (address below) declares the equipment in compliance with the essential requirements of EC Council Directives : 1999/5/EC - R&TTE : 2006/95/EC - Safety/LVD : 89/336/EEC – EMC
USA
Canada
Australia / New Zealand: Supplier Code N964 [Dialogic Pty Ltd. Level 12, 1 Pacific Highway North Sydney NSW 2060] ACN: 064 824 899
Any other region where the Regulatory Requirements are satisfied by compliance to the standards declared above.

This Declaration of Conformity is issued by Dialogic Corporation, which is solely responsible for the declared compliance.

Company Address:

Dialogic Corporation
9800 Cavendish 5th floor
Montreal, Quebec
Canada, H4M 2V9

Authorized signature, name and function:

Gaetan Hogue - Approvals Manager
Date: 25, January, 2007

Dialogic Distribution Limited, our location in Europe operates from:
Unit 4034 Kingswood Avenue Citywest Business Campus, Saggart, Co. Dublin, Ireland.

Copies of this Declaration of Conformity may be downloaded at http://www.dialogic.com/declarations

Declaration of Conformity

No: D0087
Revision 01

The equipment described below is declared to be in conformity with the following applicable national and international standards. The conformity is valid ONLY when the equipment is used in a manner consistent with the manufacturer's recommendations and the reference documents.

Equipment Type(s): Eiconcard C91 PCIe LP

Document No / Edition /Date	Title
IEC 60950-1 – 2nd Edition (2005-12)	Safety of Information Technology Equipment
EN 60950-1: 2006	Safety of Information Technology Equipment
AS/NZS 60950.1: 2003	Safety of Information Technology Equipment
FCC, 47 CFR Part 15, Class B digital device	Radio Frequency Devices - Subpart B - Unintentional Radiators
ICES-003 Issue 4 - Feb 2004, Class B	Interference-Causing Equipment Standards - Digital Apparatus
EN 55022: 2006, Class B Limit	Information Technology Equipment - Radio Disturbance Characteristics
EN 55024: 1998 +A1 +A2	Information Technology Equipment - Immunity Characteristics
TIA-968-A + TIA-968 A1 + TIA-968-A2 + TIA-968-A3 + TIA-968-A4 + TIA-968-A5 + TIA-1096-A	Technical Requirements for Connection of Terminal Equipment to the Telephone Network
CS-03 Issue 9, A3 April 07, Part VI	Specification for Terminal Equipment, Terminal Systems, Network Protection Devices, Connection Arrangements
TBR3: Nov 95, A1: Dec 97	Attachment requirements for terminal equipment to connect to a ISDN using ISDN basic access
TBR 12: 1993/A1:1996	2048 kbit/s Digital Unstructured Leased Lines
ACIF S031: 2001	Requirements for ISDN Basic Access Interface

Additional information:	
Australia test reports	Nemko test report # 115050-2TRFSAF dated 27-Oct-2008 covers AS/NZS 60950.1 Nemko test report # 115048-1TRFEMC dated 27-Oct-2008 covers EN55022 Layer 1 and Dialogic delta report dated 11-Sep-2008 covers AS/ACIF S031

Regions:

European Economic Area (EEA) :Dialogic Corporation (address below) declares the equipment in compliance with the essential requirements of EC Council Directives : 1999/5/EC - R&TTE : 2006/95/EC - Safety/LVD : 2004/108/EC - EMC
USA : Dialogic Corporation (address below) make this SDoC as Responsible Party for equipment registered with ACTA as number : US: E3SXDNAN50-0473
Canada : Dialogic Corporation (address below) is the Declaring Party for equipment registered with Industry Canada as number : IC: 885E-500473
Australia: Supplier Code N964 [Dialogic Pty Ltd. Level 12, 1 Pacific Highway North Sydney NSW 2060] ACN: 064 824 899
Any other region where the Regulatory Requirements are satisfied by compliance to the standards declared above.

This Declaration of Conformity is issued by Dialogic Corporation, which is solely responsible for the declared compliance.

Company Address:

Dialogic Corporation
9800 Cavendish 5th floor
Montreal, Quebec
Canada, H4M 2V9

Authorized signature, name and function:

Dan Roman - Product Regulatory Engineer
Date: 5-Nov-2008

Dialogic Distribution Limited, our location in Europe operates from:
Unit 4034 Kingswood Avenue Citywest Business Campus, Saggart, Co. Dublin, Ireland.

Copies of this Declaration of Conformity may be downloaded at http://www.dialogic.com/declarations

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