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Tech Notes



# Nextport Compatibility List with V.92, V.110 and V.120 Clients

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## Introduction

This document provides details of compatibility between Nextport modems and V.92, V.110 and V.120 clients.

## Prerequisites

### Requirements

There are no specific requirements for this document.

### Components Used

This document is not restricted to specific software and hardware versions.

### Conventions

Refer to [Cisco Technical Tips Conventions](#) for more information on document conventions.

**Note:** The compatibility tables in this document are finite in size. However, in principle, we expect to be interoperable with any other equipment, provided:

- The equipment does not deviate from the respective or applicable standards, either due to bugs or due to proprietary features.
- The connection is free of errors.

## Analogue

This section provides the compatibility matrix for Nextport modems and V.92 clients. This section also provides a general modem compatibility matrix.

### V.92

**Table 1 – V.92 Compatibility Matrix**

Manufacturer	Model	Interface	FirmwareRevision	Chipset	V.44	QC	MOH
Zoom	3049-00-00L	External	ver. S110701b-A Z207	Lucent	Yes	Yes	Yes
Multitech	MT5634ZPX-PCI	PCI	ver. 1.25p	Lucent	Yes	Yes	No <sup>1</sup>
Creative Labs	DE5621	External	ver. ACF_V1.088-V90_P21_fsh	Connexant	Yes	Yes	Yes
Diamond Multimedia	SupraSST 56i	PCI	ver. 2.1.2.172.019	Connexant	Yes	No	No
Hayes	15357-A	PCI	ver. 8.12-D H207	Lucent	Yes	No	Yes <sup>2</sup>
Creative Labs	DI5631	PCI	ver. 2.1.2.172.037	Connexant	Yes	Yes	Yes
Creative Labs	DI3631	PCI	ver. 4.43.057-T-PI	Creative	Yes	No	Yes <sup>3</sup>
Zoom	3025	PCI	ver. 8.12-G Z207	Lucent	Yes	No	Yes <sup>2</sup>
Hayes	15328	External	ver. s1117d00 -A H207,0,19	Lucent	Yes	Yes	Yes

### Criteria

Here are the criteria that the modems listed in [Table 1](#) must meet:

- MOH Client Initiated
- MOH Call Waiting
- QC Interoperability/Time to Connect
  - Time to Connect Gain is more than 25 percent.

- Call Success Rate is more than 98 percent.
- QC Success Rate is more than 95 percent.
- Receive minimum connect rate is 44 Kbps
- Transmit minimum connect rate is 26.4 Kbps
- Connect Rate:
  - Lucent PRI QC-98 percent receive minimum connect rate 48K
  - (T1 & E1) V.90-98 percent transmit minimum connect rate 26.4K
  - CT1 Lucent QC-98 percent receive minimum connect rate 44K
  - (1RBS) QC-98 percent transmit minimum connect rate 26.4K
- CT1 Teleos QC-98 percent receive minimum connect rate 44K
- (2 RBS) QC-98 percent transmit minimum connect rate 26.4K

**Note:** V.44 criteria for throughput testing is defined to be more than or equal to V.42bis, as the benchmark represents.

## General Modem Compatibility

[Table 2](#) provides the general modem compatibility matrix.

**Table 2 – General Modem Compatibility Matrix**

Manufacturer	Model	Interface	Chipset
3COM	10/100Lan+56k Modem	PCMCIA	Texas Instruments
3COM	EtherLink III +33.6 Modem	PCMCIA	
3COM	10/100Lan+56k Modem	PCMCIA	Texas Instruments
3COM	56K Cellular 3CXM556	PCMCIA	Texas Instruments
3COM	Faxmodem Pro	External	Texas Instruments
3COM/USR	USR Winmodem	Internal	Analog Devices (HSP Modem)
ActionTec	PCI56019-02	Internal	Lucent
ActionTec	Desktalk Voice 33600	Internal	Cirrus

ActionTec	DataLink 56K	PCMCIA	Rockwell
Amquest	k56 Flex	Internal	Rockwell
Aopen	FM56EX	External	Rockwell
Aopen	FM56EX-ITU	Internal	Rockwell
Aopen	FM56EX-ITU2	Internal	
Apex Data	V.34 Cellular	PCMCIA	Rockwell
Apex Data	Rapid Transit 56K	PCMCIA	Rockwell
Archtek	HAMR 5600 MODEM	PCI	Lucent
Archtek	HAMR 5600 MODEM	PCI	Lucent
Archtek	Smartlink 56K Voice/Fax	PCI	ESS
AT&T	Paradyne 3825Plus	External	
AT&T	Paradyne	3740	ver. 1.00.15SA
AT&T	Paradyne	Dataport 3710	A1
Aztec	MDP7800-U	FaxModem	Lucent
Aztec	MDP7800-U	FaxModem	Lucent
Best Data	Smart One 336FLX	External	Rockwell
Best Data	Smart One 56X	External	Rockwell
Best Data	SMARTONE 56K SOFTMODEM	PCI	Rockwell (Softmodem)
Best Data	56K Internal Data/Fax	PCI	Rockwell
Boca	Modem 14.4	Internal	Rockwell
Boca	Speakerphone 33.6	External	Rockwell
Boca	Tidalwave V.90	External	Rockwell
Boca	14.4 Modem	External	Rockwell
Boca	V.34 Voice	Internal	Rockwell
Boca	336 Data/Fax	Internal	Rockwell
Boca	V.34 28800	External	Rockwell
Boca	Tidalwave V.90	External	Rockwell
Boca	Tidalwave V.90	External	Rockwell
Boca	V.34 DSVD	Internal	Rockwell
Boca	Boca 56K	External	Rockwell

Boca	Multimedia Modem 56k	External	Rockwell
Boca	Mobile Office	PCMCIA	Rockwell
BTC	HSP MODEM V90	Internal	PcTel (HSP Modem)
Cardinal	2400ex	External	
Cardinal	MVP34XV	External	
Cardinal	V.34 Voice	External	
Cardinal	V.34 336 Faxmodem	PCMCIA	
Cardinal	Connecta 56K	External	
Cheyenne	14.4K	Internal	
Compaq	Netelligent	Internal	Rockwell
Compaq		Internal	PCTel
Creative Labs	Sharevision 28.8	External	Rockwell
Creative Labs	Modem Blaster V92 (DE5621)	External Conexant	ACF
Dago	Speed 14.4	External	Rockwell
Dell	Dell 14.4SC	PCMCIA	
Diamond Multimedia	Supramodem 2400	External	
Diamond Multimedia	SupraFAX Modem 14.4	External	Rockwell
Diamond Multimedia	SupraExpress Fax V.90	Internal	Rockwell
Diamond Multimedia	Supra Max PCI 56K/V.90	Internal	Rockwell (Controllerless)
Diamond Multimedia	Supra PC Card	PCMCIA	Rockwell
Diamond Multimedia	SupraExpress 56K	External	Rockwell
Diamond Multimedia	SupraExpress 2420 V.90	External	Rockwell
Diamond Multimedia	SupraExpress 56k	External	Rockwell
Diamond Multimedia	SupraExpress 56k	External	Rockwell
Diamond Multimedia	SupraFAX Modem 288	External	Rockwell
			Conexant

Diamond	SupraSST 56i	Internal	(HSF)
Digital	Decmodem v32	External	
Ecom	EM-56IEV	External	Ambient
Eigercom	PCTel V.90	Internal	PcTel (HSP Modem)
Eigercom	PCTel V.90	Internal	PcTel (HSP Modem)
ELSA	MicroLink V.90	External	
Euroviva	LT 33.6 DSVD	Internal	Lucent
Global	Teleport 33.6	External V34_ACF_DS1	Rockwell
Global	Teleport 56K	External	Texas Instruments
Global	Teleport 56K	Internal	Texas Instruments
Global	Platinum 28.8	PCMCIA	
GVC	SF-1156V/R2ID	External	Rockwell
Hayes	Accura 288 FAX	External	
Hayes	Accura 336	External	
Hayes	Accura 56kFlex	External	
Hayes	Accura V.90 (Lucent)	External	
Hayes	Accura 56k (Lucent)	External	
Hayes	Accura 336 DSVD	External	
Hayes	Optima 56K (Not Flex)	External	
Hayes	Optima 28.8	External	
Hayes	Speakerphone	External	
Hayes	Optima Smartmodem 14400	External	
Hayes	Optima 56k	External	
Hayes	Optima 336	External	
Hayes	Accura 336	PCMCIA	
Hayes	Accura 56K + Fax	External	
IBM	Data/Fax 56K	PCMCIA	Texas Instruments

IBM	7852 V.34	External	
IBM	IBM Thinkpad wave V90	Internal	IBM
IBM	19K4162	Internal	Conexant HCF
Intel	14.4	Internal	Rockwell
Intel	144/144e	External	Rockwell
Legend	LEMAOH-5600	External	Cirrus Logic
Logicode	Quicktel 56K II-E	External	
MagicXpress	MX56V	Internal	Rockwell
Magitronic	A-FAX56KX2	Internal	Texas Instruments
Maxtech	NetPacer	External	Rockwell
Microcom	DeskPorte 28.8S	External	Rockwell
Microcom	DeskPorte 28.8S	Internal	Rockwell
Microcom	QX3296C	External	
Microcom	DeskPorte Fast	External	
Microcom	AX/2400	External	
Microcom	OfficePorte	External	
MicroResearch	MR560XL	External	
Motorola	ModemSurfer 56K	External	Rockwell
Motorola	Codex 3261	Internal	
Motorola	Montana 28.8 Fax	PCMCIA	
Motorola	Premier 33.6	External	
Motorola	VoiceSurfer 56K	External	Rockwell
Motorola	ModemSurfer 56K	External	Rockwell
Motorola	ModemSurfer 56K	External	Rockwell
Motorola	Modemsurfer 28.8	Internal	
Motorola	V.34R	External	
Motorola	V.3229 UDS 14400	External	
Motorola	ModemSurfer 28.8	External	Rockwell
Motorola	ModemSurfer 56K	Internal	Rockwell
	Motorola SM56		

Motorola	Pci	Internal	Motorola
Motorola	V90 Internal Softmodem	Internal	Motorola
Multitech	5634ZBA (Lucent) V.90	External	Rockwell
Multitech	5634ZBA (Lucent) V.90	External	Lucent
Multitech	Multimobile 3400ZLX 33.6	PCMCIA	Lucent
Multitech	Multimodem ZDX 33.6K	External	
Multitech	Multimobile MT5634ZLX	PCMCIA	Lucent
Multitech	Multimodem 2834ZDX	External	Rockwell
Multitech	Multimodem 5600ZDXV V.90	External	Rockwell
Multitech	Multimodem 5600 ZCXV 56K	External	Rockwell
Multitech	MT1932BL	External	
Multitech	Multimodem ZDX 56K	External	
Multitech	Multimodem II	External	Rockwell
Multitech	Multimodem ZDX 33.6K	External	
Multitech	MT5634ZPX-PCI-V92	Internal	Lucent
NewCom	Faxmodem 28.8	External	Rockwell
NewCom	Faxmodem 336	External	Rockwell
NewCom	FaxModem 336	Internal	Cirrus Logic
NewCom X2	NewCom 56K	Internal	Cirrus Logic
NewCom	NewCom 56KkifxC V90	Internal	Cirrus Logic
Ositech	Jack of Diamond 33.6	PCMCIA	Rockwell
Ositech	Jack of Spades	PCMCIA	Rockwell
Ositech	5 of Hearts	PCMCIA	Rockwell
Penril	Alliance V.34	External	
Philips	EasyConnect 56K	External	Rockwell
Philips	EasyConnect 56K	Internal	Rockwell

Practical Peripheral	PC 288LCD V.34	External	
Practical Peripheral	2400 PM2400FX96SA	External	
Practical Peripheral	336 Minitower	External	
Practical Peripheral	56K Minitower	External	
Practical Peripheral	V.32bis 144	External	
Practical Peripheral	V.32bis 144	External	
Practical Peripheral	PM2400SA	External	
Prometheus	Pro Modem 14.4	Internal	
Psion	Gold Card V34+Fax	PCMCIA	
Psion	Gold Card 56K+Fax	PCMCIA	Rockwell
QXComm	QXC56KC175479	External	Ambient
SimpleTech	56K Communicator	PCMCIA	Rockwell
Smartlink	Shark Tuki	External	Cirrus Logic
T&W	TW5600	External	Topic
Tailink	Voice 144v	Internal	UMC
TDK	Cyber Express DF5600 V.90	PCMCIA	Rockwell
TDK	DF2814C V.34	PCMCIA	Rockwell
Telebit	WorldBlazer	External	Telebit
Telebit	8396	External	Telebit
Telebit	TeleBlazer PCMCIA V.34	PCMCIA	Telebit
Telebit	Fastblazer	External	Telebit
Toshiba	Data/Fax + Voice V90	Internal	Lucent (Integrated Laptop)
TP-Link	TMET5660	External	TP-Link
USR	Megahertz 33.6	PCMCIA	Rockwell
USR	Megahertz 56k	PCMCIA	Texas Instruments

USR	Sportster 0459 v.90	External	Texas Instruments
USR	00568603 Sportster V.90	External	Texas Instruments
USR	Sportster 33.6 Fax	External	Texas Instruments
USR	Sportster 33.6 Fax	Internal	Texas Instruments
USR	Sportster 33.6 Voice	External	Texas Instruments
USR	Sportster 56k Voice	External	Texas Instruments
USR	Sportster 56k	External	Texas Instruments
USR	Courier V.Everything V.90	External	Texas Instruments
USR	Courier V.Everything V.90	External	Texas Instruments
USR	Courier V.Everything 56K	External	Texas Instruments
USR	V.Everything 33.6	External	Texas Instruments
USR	V.Everything 33.6	PCMCIA	Texas Instruments
USR	Sportster 14.4	PCMCIA	Rockwell
USR	Courier 14.4	External	Texas Instruments
USR	Sportster PC Card 33.6	PCMCIA	Texas Instruments
USR	Sportster 28.8 Fax	External	Texas Instruments
USR	Sportster Faxmodem	External	Texas Instruments
USR	Sportster 14.4	Internal	Rockwell
USR	Sportster	External	Texas Instruments
USR	Sportster	External	Texas Instruments
USR	56K VOICEFAX MODEM PRO	Internal	Texas Instruments

USR	715630-01	External	Texas Instruments
USR	5686D	External	Texas Instruments
USR	3CP5699A	Internal	Texas Instruments
Viking	NetLink K56Flex	Internal	
Viking	FM56KPA V.90	PCMCIA	Rockwell
Viking	56k ISA Modem	Internal	Rockwell
Viking	56K AKY Data, Voice, Fax	Internal	
Viking	LT ISA 56k	Internal	Lucent (Controllerless Modem)
Viva	Viva 14.4 Fax	External	Rockwell
Wonda	EDVM-D56	External	Rockwell
Worldlink	Faxmodem 56000	External	Ambient
Xircom	CreditCard 56K	PCMCIA	Rockwell
Xircom	CREDITCARD 56K	PCMCIA	Lucent
Xircom	Creditcard 33.6K	PCMCIA	Lucent
Xircom	CreditCard 28.8	PCMCIA	
Xircom	Creditcard CM-56G (Lucent)	PCMCIA	
Zoltrix	PCTel V90	Internal	PcTel (HSP Modem)
Zoltrix	PCTel V90	Internal	PcTel (HSP Modem)
Zoom	Comstar	Internal	Rockwell
Zoom	PC Card V.34C Plus 336	PCMCIA	Rockwell
Zoom	336	External	Rockwell
Zoom	Faxmodem V.34I 336	Internal	Rockwell
Zoom	2819 FaxModem 56K D/F	Internal	Rockwell
Zoom	K56 Flex	External	Rockwell
Zoom	Faxmodem K56Flex	Internal	Rockwell
	Faxmodem		

Zoom	Dualmode V.90	External	Rockwell
Zoom	336	External	Rockwell
Zoom	Faxmodem 14.4	External	Rockwell
Zoom	Faxmodem 14.4	Internal	Rockwell
Zoom	Faxmodem	External	Rockwell
Zoom	Faxmodem Dualmode	External	Rockwell
Zoom	3049-00-00L	External	Lucent
Zypcom	Z34-SE 336	External	
Zyxel	U1496 14.4	External	
Zyxel	U-336E V.34/Fax	External	
Zyxel	U-336S	External	
Zyxel	Elite 2864I	External	

Refer to [Understanding HSP and Controllerless WinModems](#) for more information on modem architecture.

## Criteria

In order for a modem to be on the list in [Table 2](#), the modem must meet the criteria that this section lists:

Client modems call into the DFC108 between one hundred and two hundred times with the default modem settings. All modems must meet 98 percent Call Success Rate (CSR) criteria regardless of the highest supported modulation. Here is a list that breaks down the minimum connect rates for 56K (K56 and V.90) and V.34 only, as those standards allow multiple connect rate options.

### Lucent PRI (T1 and E1)

- CSR (all modems): 98 percent
- 56K minimum receive connect rate: 98 percent at 48K
- 56K minimum transmit connect rate: 98 percent at 26.4K
- V.34 minimum receive connect rate for 33.6 modems: 98 percent at 28.8K
- V.34 minimum receive connect rate for 28.8 modems: 98 percent at 26.4K

### CT1 Lucent (1 RBS) and CT1 Teleos (2 RBS)

- CSR (all modems): 98 percent
- 56K minimum receive connect rate: 98 percent at 44K
- 56K minimum transmit connect rate: 98 percent at 26.4K

- V.34 minimum receive connect rate for 28.8 and 33.6 modems: 98 percent at 26.4K

Client modems call into the DFC108 twenty times at every supported modulation at the highest data rate. Various combinations of EC/DC are also tested for each modulation. Note that there are some modulations for which Cisco does not test all combinations of EC/DC, because there are some cases in which this is irrelevant. The calls must be successful.

**Note:** CSR for this test is 98 percent or better. Note that Cisco may not have tested some of the modems in the list on the same image.

## Digital

This section provides the compatibility matrix for Nextport modems and V.110 and V.120 clients.

### V.110

Manufacturer	Model	Interface
3Com	USR USR Courier I-modem	External
Zoom	ISDN TX U Model 2015	External
Zyxel	Elite 2864I USA	External
Zyxel	Omni.net USA	External
Zyxel	OmniTA128 USA	External

### V.120

Manufacturer	Model	Interface
3Com	ISDN Pro TA	External
Adtran	Express 3010	External
Ascend	Pipeline 15	External
Eicon	DIVA T/A ISDN Modem	External
MultiTech	IWay Hopper	External
USR	Courier I-Modem	External
Zoom	ISDN TX U Model 2015	External
Zyxel	Omni.Net USA	External

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## Related Information

- [Understanding HSP and Controllerless WinModems](#)
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