



## COURIER I-MODEM RELEASE NOTES

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### New Features

The following new features have been added to your modem since the 2.2.2 release:

- ◆ V.90 Server Capabilities
- ◆ Microsoft Encrypted Password Authentication
- ◆ Outgoing V.110 Rate Selection
- ◆ A-Law and u-Law Companding Methods

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### Year 2000 Compliance

For information on Year 2000 compliance and 3Com products, visit the 3Com Year 2000 web page:

<http://www.3com.com/products/yr2000.html>

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## New AT Commands

The following table includes a list of all AT commands needed to use these new features. See the **Command Reference** for more information regarding bit-mapped registers.

In order to	Command	
Enable V.90 (Default)	<b>ATS58.5=0</b>	
Disable V.90	<b>ATS58.5=1</b>	
Disable the asterisk (*) key on the analogue device port as a redial	<b>ATS68.5=1</b>	
Use the asterisk (*) key as redial	<b>ATS68.5=0</b>	
Enable V.110 fixed rate calls (38.4 kbps)	<b>ATS80.3=1</b>	
Use S-Register 46 to set the outgoing V.110 rate.	<b>ATS80.3=0</b>	
S46=	kbps	
0	38.4	<b>ATS46=0</b>
1	19.2	<b>ATS46=1</b>
2	9.6	<b>ATS46=2</b>
3	4.8	<b>ATS46=3</b>
4	2.4	<b>ATS46=4</b>
5	1.2	<b>ATS46=5</b>
6	0.6	<b>ATS46=6</b>
Enable A-Law encoding See the <i>Command Reference Manual</i> for more information regarding the switch protocol type.	<b>AT*W=nA</b> where <b>n</b> is the switch protocol type.	
Enable u-Law encoding See the <i>Command Reference Manual</i> for more information regarding the switch protocol type.	<b>AT*W=nU</b> where <b>n</b> is the switch protocol type.	

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## V.90

The I-Modem now has V.90 server capabilities. By default, V.90 server is enabled on your modem.

V.90 analogue clients can call into your I-Modem to get V.90 connections. The analogue device port is not able to act as a V.90 server.

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## Microsoft Encrypted Password

If the I-Modem is connecting to a server that supports Microsoft Encrypted Password Authentication, the I-Modem will respond to the server using the same protocol. However, the I-Modem will communicate with your computer using Password Authentication Protocol (PAP).



*Since your computer must communicate using PAP, the software on your computer should not be configured to ONLY accept Microsoft Encrypted Password.*

Your modem will translate PAP into Microsoft Encryption Password Authentication to communicate with the server. The password will be clear-text over the serial cable between your computer and the modem. Once the password is on the ISDN telephone network, the password will be encrypted.

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## Outgoing V.110 Rate Selection

You can now select the outgoing V.110 rate. This feature was added to your I-Modem for compatibility. It allows each user to set a specific default outgoing rate.

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## A-Law and u-Law Companding Methods

You can choose companding methods for a particular switch for the analogue device port and V.90 calls. Companding methods will either be A-Law or u-Law. To set the companding method to A-Law send AT\*W=nA (where *n* is the switch protocol type) to the I-Modem. See the *Command Reference Manual* for more information about the switch protocol type.

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## New Connect Messages

The table below includes all new connect messages.

Message	#	Message	#
300/DIGITAL	244	28000/ARQ/V90	259
600/DIGITAL	245	29333	260
1200/DIGITAL	246	29333/ARQ	261
2400/DIGITAL	247	29333/V90	262
3600/DIGITAL	248	29333/ARQ/V90	263
4800/DIGITAL	249	30666	264
7200/DIGITAL	250	30666/ARQ	265
9600/DIGITAL	251	30666/V90	266
12000/DIGITAL	252	30666/ARQ/V90	267
14400/DIGITAL	253	32000	268
19200/DIGITAL	254	32000/ARQ	269
38400/DIGITAL	255	32000/V90	270
28000	256	32000/ARQ/V90	271
28000/ARQ	257	34666	272
28000/V90	258	34666/ARQ	273

<b>Message</b>	<b>#</b>	<b>Message</b>	<b>#</b>
34666/V90	274	44000/V90	296
34666/ARQ/V90	275	44000/ARQ/V90	297
36000	276	45333/V90	298
36000/ARQ	277	45333/ARQ/V90	299
36000/V90	278	46666/V90	300
36000/ARQ/V90	279	46666/ARQ/V90	301
38666	280	48000/V90	302
38666/ARQ	281	48000/ARQ/V90	303
38666/V90	282	49333/V90	304
38666/ARQ/V90	283	49333/ARQ/V90	305
40000	284	50666/V90	306
40000/ARQ	285	50666/ARQ/V90	307
40000/V90	286	52000/V90	308
40000/ARQ/V90	287	52000/ARQ/V90	309
33333/V90	288	53333/V90	310
33333/ARQ/V90	289	53333/ARQ/V90	311
37333/V90	290	54666/V90	312
37333/ARQ/V90	291	54666/ARQ/V90	313
41333/V90	292	56000/V90	314
41333/ARQ/V90	293	56000/ARQ/V90	315
42666/V90	294	57333/V90	316
42666/ARQ/V90	295	57333/ARQ/V90	317

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