



Modem Initialisation Strings

Modem Initialisation Strings – Making a better connection

Some modem manuals recommend that you add special modem initialisation (or 'init') strings (a series of numeric commands) to your modem settings in order to improve their efficiency and enhance the stability of online connections.

If your manual does not contain instructions for adding modem initialisation strings to your modem configuration, you can follow these steps:

1. Click the Start button
2. Select the Settings option
3. Select the Control Panel option
4. Double-click the Modems icon
5. Click once on the installed modem
6. Click the Properties option
7. Click the Connection tab
8. Click the Advanced button
9. In the long rectangular box labelled 'Extra settings', type in the init string. Finish by clicking 'OK'.

There are numerous resources available on the web for modem init strings. Most are specific to the manufacturer of the device. Generic strings can be used but it is recommended that you use specific drivers. Check the modem documentation, web site or call the manufacturer.

The init string will be used on every dial-up networking connection that uses that modem. If you have more than one modem, you will need to repeat the above procedure for all installed modems.

Generic strings:

a) To set the modem to factory default:

```
at&fx3%c0
```

Tip: You may also want to try one of these generic init strings:

```
AT&F  
AT&F1  
AT&F&C1&D2  
AT&F1&C1&D2
```

Tip 2: For K56flex modems, try one of these generic init strings:

```
AT&F+MS=56  
AT&F+MS=56S202=32  
AT&F1+MS=56  
AT&F1+MS=56S202=3 2
```

Modem drivers

Modem manufacturers continually tweak and refine their modem software in an effort to ensure the peak performance of their products. You should ensure that you are using the latest driver software for your modem. Most manufacturers make copies of their latest software available for download on their Web sites.

As a general rule, the updated software will include a setup program, so installation is simply a matter of downloading the setup software and running it.



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If your modem manufacturer has not released any new driver software for your modem, or if it does not solve the disconnection problem, you should install the default Windows 95/98 'universal' modem driver (which should work with all modems).

Manufacturer	Model & Make	Initialising String
Aopen	Magic (FM56 ITU)	&F&C1&D2
Apex	Data PC Card 14.4k	&Fs0=0s7=60&k3&d2x3\n3-k0
	Data PC Card 28.8k	&Fs0=0s7=60&k3&d2x3\n3-k0%e2
	Data PCR1414 PCMCIA	&Fx3&c1&d2&k3 \n3%c0
Aptiva		See LT Winmodem
Auslinx	Kookaburra	&FW2&C1&D2&K3&Q5LS7=60S36=7S46=138S48=7S91=13S95=0
	Tasmanian Devil	&FW2&C1&D0&K3&Q5LS7=60S36=7S46=138S48=7S91=13S95=0
	Redback 33.6k	&F&C1&D2E1V1W1S0=0S7=0S10=25S91=13S92=13
	ABC 56k	&F&C1&D2&K3\N3 Note: Auslinx recommend using the standard 28,000 modem type and this string then getting the new V.90 firmware and driver. http://www.auslinx.com.au/
Avtek	CD760	&F&k3&d2s0=0x4w2s95=45
	CD930	&Fb15\n3&k3&d2%c0
	M-Plus Fax V32b CD930	&Fs0=0s7=60&k3&d2x3#k0
	M-Plus Fax V32b CD960	&Fs0=0s7=60&k3&d2x3\n3-k0
	Mega Data/Fax	&F+c61b0x1&c1&p1s6=4v1s0=0s7=60
	Mega DataFax 144	&Fs0=0v1x3&k3&d2
	MegaModem 1234	&Fs0=0v1x3 OR &FX3&C1&D2&K3S0=0 \N3%E2
	MegaPlus Fax 288	&Fs0=0s7=60&k3&d2x3\n3-k0
	MegaPlus Fax V32	&F&d2&c1
	MegaPlus Fax V32bis	&F\n3%c0&k3&d2&c1
	MegaPlus V34	&F+ms=74,1,300,28800s0=0s7=60&k3&d2x3\n3-k0
	MegaPlus V.32	&Fs0=0s7=60&k3&d2x3
	MegaPlus V.32bis	&F\n3%c0&k3&d2&c1
	MegaPlus V.34bis	&F\n3%c0&k3&d2&c1

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	MegaPlus Voice	&Fs0=0s7=60&k3&d2x3\n3-k0
	MegaPlus Voice 144	&Fs0=0s7=60&k3&d2x3\n3-k0
	MegaPlus fax 1234	&Fs0=0s7=60&k3&d2x3\n3-k0
	MegaPlusV32bCD92C	&Fs0=0s7=60&k3&d2x3#k0
	MegaPlusV32bCD95C	&Fs0=0s7=60&k3&d2x3\n3-k0
	MegaPlus Fax V.34 CD740	&F%e2s7=60-k0x3&d2s0=0
	MegaPlus Fax V.34 CD990	&F&d2&k3x3-k0
	Mini Pocket Fax	&F+c61b0x1&c1&p1s6=4v1s0=0s7=60
	MiniPocket V32b CD980	&Fs0=0s7=60&k3&d2x3#k0
	PC Mega DataFax	&F+c61b0x1&c1&p1s6=4v1s0=0s7=60
	V34 28.8K Data/Fax	&F&d2&c1&k3%c0\n3x3
Aztech		Aztech AT3500&Fe1q0x3&c1&d2&k3m1s2=255 Aztech MDP3858 -A&FE0V1W2S0=0&C1&D2 - Fixes No Answer
	mdp3858sp	&Fe0v1s0=0&c1&d2+mr=2
Banksia	General	&F&C1&D2E1V1Q0S0=0S7=60S95=0W2
	14.4	x4&c1&d2&k3&t5\n3s0=0
	Deskporte 28.8P	&F&y0&c1&d2
	Deskporte 28.8S	&F&c1&d2s0=0s7=60
	HC Modem 33.6	&F%c0s95=0w2
	MyFastModem 28.8	&F&c1&d2%e2&k3s10=60
	MyModem 14.4	&F&c1&d2%e2&k3s10=60
	MyModem (other)	&F&k3&d2&c1\n3%c0
	MyVoiceModem 33.6 (1)	&F&c1&d2&k3%c0
	MyVoiceModem 33.6 (2)	&F&c1&d2e1v1q0s0=0s7=60s95=0w2&k3%c0
	PCM 14.4K	&F&k3&d2&c1\n3%c0
	PCMCIA 28.8	&F%c0
	PCMCIA 33.6	&F&c1&d2m0e1v1q0s0=0s7=60s95=0w2

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	Wave Modem SP 33.6 (1)	&F%c0-sms=0
	Wave Modem SP 33.6 (2)	&F&c1&d2q0v0s0=0s7=60s95=0w2
	Wave Modem SP 56 (1)	&F&c1&d2q0v0s0=0s7=60s95=0w2 &F&C1&D2S38=0+MS=11 - Sets to v.34 (33.6k) OR +ms=56,1,300,42000 OR &F+ms=11,1,300,33600%c0s95=0w2
	Wave Modem SP 56 (K56Flex)	&F%c0s95=0w2+ms=56,1,300,52000
	Wave Modem SP 56 (v90)	&F%c0s95=0w2+ms=12,1,19200,45333
Cirrus	Cirrus 14.4	&F&C1&D2\Q3%C0
	Cirrus Logic 33.6	&F\N0%C0 OR &F\Q3\N3%C0 OR &F&C1&D2X4V1\Q3\N4%C0 OR &F&C1&D2Q3N3J0%C1"H3S7=60 OR &FE0V1W4&C1&D2Q3N3J1%C1H3S95=47S0=0
	Cirrus CL-MD3450	&FX4
	Cirrus Logic 56k	X2 S32=32&N16&U10
	Cirrus Logic CL-MD56K 56k X2	&D2&C1X4V1Q0S7=70W3\N3&K3
Compaq	All	&F&C1&D2&K3%C0 Note: http://vcmpoapp04.compaq.com/daytona/english.asp Compaq says that if people are getting slow speeds with their Presario 56k modems the best idea is to go to their website and download the v90 upgrade. Phone 1300 368 369
	56k	&C1&D2X3S7=47M1
Conexant	HCF/Soft	See Rockwell HCF Softmodem
Creative	Creative Blaster 28kE	&F&C1&D2%C0\N3 OR S48=0S30=0
Dell	Dell Data/Fax 24/96V	&F&C1&D2&K3\V1
	Dell Data/Fax 96/96V	&F1&C1&D2\N7\Q3\V2
	Dell 14.4 Internal	&F&C1&D2&K3%C0
	Dell DS92M	&F&C1&D2\Q3%C0 OR Q0V1X4&C1&D2\W1\A3\Q0\J1\N1

Modem Initialisation Strings

	All, High-Speed Models	&F&D0&K3&Q5S0=0
	Dell Notebook (325 series) V.32 fax	S0=0 E1Q0V1X4&K3
	Dell Data/Fax	S0=0 E1Q0V1X4&K3
Diamond	DataPump 14.4	&Fb0l3x3&c1&d2&k3&p1%c0 \n3
	DataPump 28.8	&Fb0l3x3&c1&d2&k3&p1%c0 \n3
	DataSystem 1414 Pocket	&F13&c1&d2\$f4\$s0\$e1
	LightFax 1414LC	&Fb0l3x3&c1&d2&k3&p1%c0 \n3
	LightFax 2880	&Fb0l3x3&c1&d2&k3&p1%c0 \n3
	Pump 1414 Internal	&Fb0l1n0x1&c1&d2&p1
	Pump V.34	&Fb0l3x1&c1&d2&k3&p1%c0 \n3
	VoicePump 1414 Internal	&Fb0l1n0x1&c1&d2&p1
	Internal V32bis	x1&c1&d2e1
Digicom	14k4 Fax Modem	&c1&k3\n0%c0
Directcomm	Internal Software Modem	&F&c1&d2&k3+mr=1; +dr=1; +er=1; +ms=k56,1,75,19200,75,38000
	All	B0 OR &G OR &P1 OR S0=0 OR S6=(2,3,4,5) OR S11=95
Discovery	All	b0l1&g0s0=0s6=2s11=95w2x3s46=138%c0 OR b0l1&g0s0=0s6=2s11=95w2x4s46=138s95=0
Dynalink	All	&F%e2&c1&d2w2x3&k3&w
	1414VE	x1&c1&d2e1
	1414VQE	&F&x3&c1&d2w2s95=255&w&w1
	1414VQH	&F&d2&c1x1&p1&g0%c0
	1428VQE	&F&c1&d2w2x3%e1
	1433VQH Fastcard +	&F1&h1&r2x1 28.8 OR &Fs95=3x3%e1&w 33.6 OR &F&c1&d2w2 OR (can?t detect busy/dial) &F&c1&d2w2x1
	56K	&F&x113



Modem Initialisation Strings

	V32bis	&F&d2&c1x1w2&p1&g0%c0
	V34	&F&c1&d2w2x3%c0
Ericsson	DC12	&Fe0v1x3s0=0&c1&d2\ v1
Galaxy	Galaxy 14.4	&F&C1&D2\Q3%C0
	Galaxy Gemini	&F&D2\Q3%C0 OR &F&D2\Q3
Gateway	Gateway Telpath Global 33.6k pcmcia card	&FX4&C1&D3&K3&Q5\N3%C3S7=60 http://www.gw2k.com.au/support/support.asp
Global Village	All	http://www.globalvillage.com/
	33.6k	&F1W1S95=44
	Teleport Gold II and Teleport Mercury	&F1&k3
	Teleport Platinum	&F1w2s95=44
Hayes	Accura 144 + FAX	&F&c1&d2&k3&q6
	Accura288 V.34/V.fc + fax (1)	&Fx3&k3&d0
	Accura288 V.34/V.fc + fax (2)	&F&c1&d2&k3&q6
	Accura 56k flex	+MS=56,1,300,48000 OR +ms=56,1,300,46000 OR +ms=56,1,300,46000 OR +ms=56,1,300,44000 OR +ms=56,1,300,42000 OR +ms=56,1,300,40000 OR +ms=56,1,300,38000 OR +ms=56,1,300,36000 OR +ms=56,1,300,34000 OR &F%C0+MS=,,,46000
	Optima 14.4	&F&c1&d2&k3&q6
	Optima 28.8 and 33.6 (1)	&F&c1&d2
	Optima 28.8 and 33.6 (2)	&F&c1&d2&k3
	Optima 288 V.FC+FAX (1)	&k3x3&d0



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	Optima 288 V.FC+FAX (2)	&F&c1&d2&q6&k3
	Optima 288 V.FC+FAX (3)	&Fe111v1x4&c1&d0s0=0s7=60
	Optima 96	&F&c1&d2&k3&q6
	Ultra 144	&F&c1&d2&k3&q6
	Ultra 96	&F&c1&d2&k3&q6
	Hayes Compatible	&F&d2&c1&k3\n3%c0b0 Note: http://www.hayes.com/ap/
IBM		See LT Winmodem
Jetstream		See Maestro
KTX	All	&F&p1&x4w1t OR &F&c1&d2s0=0s95=0w2 OR &C1&D2+MS=11 - Sets to v.34 (33.6k)
	56k	&FX3&C1&D2&K3 \N3%E2W2+MS=56,1,300,56000 OR &F&C1&D2S0=0S95=0W2
Lucent		See LT Winmodem
LT Winmodem	All	&F&C1&D2%E2S38=0 (recommended) OR &F1&W^M OR &FS=S10 OR &F&C1&D2&K3%CO-V90S37=0S38=8 OR &FORAT&F&C1 Note: These modems may take longer to make a connection, so make sure the option to cancel the call if not connected within x seconds is unchecked. You could also try unchecking "use error control" . Try reinstalling the driver. Common Problems: Error 678 no answer HandshakesForever http://www.pc.ibm.com/atechinfo/DETR-3X9O2V.html
Maestro	All	http://www.iinet.net.au/help/modems/maestro.html
	Jetstream 33.6k	%CO \N3
	Companion 33.6k	&FX3 OR &FX3&C1&D2&K3 \N3%E2W2



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	All 28k8 modems and above	&F&D2%E2W2
	All 14k4 and below (plastic cased)	&F&D2%E1W2
	All 14k4 and below (metal cased)	&F&C1&D2&R1%E1W2
Magic		See Aopen
Megahertz	XJ 1144 V32	&F\n3%c0&k3&d2
Mitsubishi	Diamond Voice	&F&c1&d2s38=0
Motorola	Motorola Lifestyle 28.8k PnP	&F&C1&D2\Q3 Note: If the customer has a version of Win95 prior to OSR2 there could be problems with this modem. Remove the PnP driver, then reboot. Don't allow Windows to detect the modem on startup, or from the modem control panel. Add the modem type yourself and choose Motorola Lifestyle 28.8 (not the PnP one). http://www.mot.com/MIMS/ISG/Products/lifestyle288internal/faqs.htm
	Fastalk II	&F&c1&d2\n3%c0b0&s1x2\q3
	Lifestyle 28.8	&F1 &F\x&d3\m\v2*th2s10=60 &Fs0=0v1x3&d2\v2\q3
	CELLect 14.4	&F&c1&d2\q3\n3%c0b0m111
	SM56K	&F*MM12 - Limits to v.34 (33.6) &F*MM13 - Sets to K56Flex mode &F*MM15 - Sets to v.90 Only
Multitech	28.8	&F&e1&e4 OR MT2834ZDX OR &c1x4m1
	Multitech 5634 ZPW 56 Flex	S0=0E1Q0V1X3F1 Or use the LT Winmodem strings
Multimodem	MT1432 BLI	&F\$ba0&e14&d2&c1
	MT1432MUI	&F\$ba0&e14&d2&c1
	MT2834ZDXI	&F&c1&d2&e14m1
	MT932EK	&F&e4\$ba0&e1&d2&c1
Mwave	All	&F&Q6\N3 Note: Comes with Aptiva computersIf its having problems detecting the dial tone try &F&q6\n3+ms=,,,31200

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Netcomm	33.6	&F&C1&D2&K3\N3%E2 OR &F&C1&D2&K3\N3%E2W2 OR &F&D2%C0 OR &FX1W1&D2&C1&K3E1Q0\N3%C3 OR &F&C1&D2\N3%C0%E2+MS=11 - Sets to v.34 (33.6k)
	CardModem Range	&F&D2&K3%E2-K0&W
	Socket Rocket Range	&F&D2&K3S106=0&W
	SmartModem Range	&F&D2&K3&W
	VoiceMaster	&F&D2&K3&W
	Roadster 56.6K Ultra	&F&D2%E2S7=60S0=0X3-K0%C0 Note: Upgrading firmware and drivers often fix Netcomm problems Contact: 1800 642 067 outside Sydney, (02) 9878 7473 Sydney
Patrol	56k	&F1&C1&D2+MS=,,,46000 Link: http://www.amegroup.com.au/
Prolink	All	&F&q6%c0&c1&d2&k3b0f10
	1414 modem	&F0b0n1%c0&d0&q6
PSI	PSI Comstation 2	S0=0 E1Q0V1X4
	PSI Comstation V	&F OR &F&C1&D2&K3&Q5\N3 OR S0=0 E1Q0V1X4
	PSI PowerModem II/IV	&F PSI OR &Q5%C0&C1&D2&K3
Psion	Psion, Dacom	&K0%C0
	Psion, Dacom Gold PC3	&FF3X4&C1&D2&I1&J2&K2&R0
	Psion, Dacom Gold PC4	&FF3X4&C1&D2&I1&J2&K2&R0%C1
	Psion, Dacom PDM 3	&FF3X4&C1&D2&I1&J2&K2&R0
	Psion, Dacom PDM 4	&FF3X4&C1&D2&I1&J2&K2&R0%C1
	Psion, Dacom PDM3C	&FF3X4&C1&D2&I1&J2&K2&R0
	Psion, Dacom PDM4C	&FF3X4&C1&D2&I1&J2&K2&R0%C1
	Psion, Dacom PDM50F	&FF8X4&C1&D2&Q5&K3&R0\N3%C3W2
	Psion, Dacom PDM60F	&FF8X4&C1&D2&Q5&K3&R0\N3%C3W2

Modem Initialisation Strings

	Psion, Dacom Quad	&B0AT&F3&K1V1E1Q0
	Psion, Advanced D-Series	S0=0 E1Q0V1X4
	Psion, Gold Card	S0=0 E1Q0V1X4
	Psion	S0=0 E1Q0V1X4
	Psion, 56k	&F0+MS=11,0
Redback		See Auslinx
Rockwell	HCF Softmodem 56k	&F&c1&d2&k3%c0w2+ms=k56,1,75,33600,75,44000 OR &Fe0v1w2 OR &FX3+ms=v34
SimpleModem	SimpleModem 288F	&F&c1&d2&k3\n3%c0b0&p1 OR &F%c0s95=3d0w2
	SimpleModem 96F / 144F	&F&c1&d2&k0\n3%c0b0&p1
	SimpleModem 96d / 144d	&F&c1&d2&k3b0&p1
	PC Cards	&FS95=0W2
Spirit	56k	+MS=56,1,300,56000,1,1
Supra	Supra Express ePro	&F+MS=11,1,14400,33600
	Supra Express iPro	See Rockwell HCF Softmodem
	FaxModem28.8	AT&F1
Swann	Xtum V.34	&Fx3&c1&d2&k3 \n3%c0
Tasmanian Devil		See Auslinx
TDK	Global Freedom 566C	Reduce the maximum speed to 57600 Uncheck compress data Use the string &FX3 or Use AT&Fx3%c0 and install the standard 28800 driver See: http://www.tdksystems.com
Texas Instruments	56k	S0=0E1Q0V1X4
Toshiba	1234 V42Bis	&FS0=0S7=60X3&K3&D2
	In FaxModem	&F+C61BOX1&C1&P1S6=4V1S0=0S7=60
	In FaxModem 24	&F+C61BOX1&C1&P1S6=4V1S0=0S7=60
	56K	&F&C1&D2%c0%E2\n3%TE=0

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Twister	56K	&F&c1&d2&k3%c0+ms=1,56,300,48000
US Robotics	56k Sportster Winmodem	&F1&B1&D2&H1&I0&K1&M4S7=60 S32=2 - Enables both X2 and v.90 S32=66 - Enables X2 and Disables v.90 S32=34 - Disables X2 and Enables v.90 S32=98 - Disables both X2 and v.90 Note: The USR 56k Sportster Winmodem is X2 http://www.usr.com/home/online/ http://www.3com.com.au/56k/
Web Excel	56k Flex Voice (Internal or External)	&F&c1s9=15 OR &F&C1S9=15 +MS=,,,48000 OR &F&C1&D2+MS=56,1,300,46000 OR &F%CO+MS=11,1,300,33600 - Drops protocol to 33.6k &F&C1S9=15+MS=11,1,300,33600 - Drops protocol to 33.6k Note: Try using a standard driver (not the Web Excel driver) and +ms=,,,48000 http://www.protac.com.au
Xircom	PCMCIA card modem	&FS30=255S91=11 http://www.xircom.com/
X-Link	All	e1q0&c1&d2
Xstreama	Fax Modem 28800	&F0 OR &F&C1&D2&K3&Q5%C1M1L1S0=0S7=45 Notes: Has data flow problems
Zenith	All	&F&P1X4W1T
Zentech	All	&F&P1X4W1T Note: Try using the standard modem drivers, i.e. install as a standard modem.