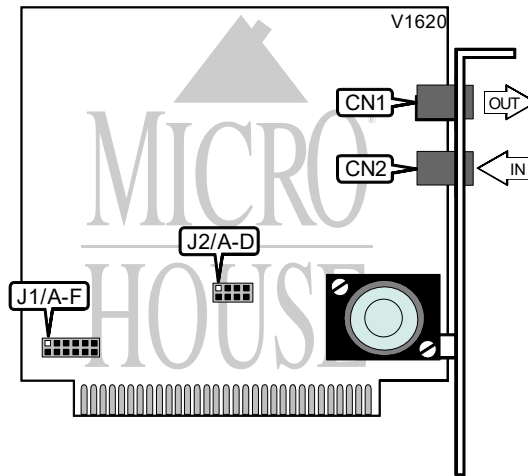


# MOTOROLA, INC.

## MODEMSURFR 28800 INTERNAL

<b>Card Type</b>	Modem (asynchronous)/Fax
<b>Chip Set</b>	Unidentified
<b>Maximum Data Rate</b>	28.8Kbps
<b>Maximum Fax Rate</b>	14.4Kbps
<b>Data Bus</b>	8-bit ISA
<b>Fax Class</b>	Class I & II
<b>Data Modulation Protocol</b>	Bell 103A/212A
<b>Fax Modulation Protocol</b>	ITU-T V.21, V.22, V.22bis, V.23, V.32, V.32bis, V.34
<b>Error</b>	ITU-T V.17, V.21CH2, V.27ter, V.29
<b>Correction/Compression</b>	MNP5, V.42, V.42bis



CONNECTIONS			
Function	Label	Function	Label
Line out	CN1	Line in	CN2

SERIAL PORT ADDRESS		
Setting	J1/A	J1/B
COM1 (3F8h)	Closed	Closed
COM2 (2F8h)	Closed	Open
COM3 (3E8h)	Open	Closed
COM4 (2E8h)	Open	Open

INTERRUPT				
Setting	J1/C	J1/D	J1/E	J1/F
2	Closed	Open	Open	Open
3	Open	Open	Closed	Open
4	Open	Open	Open	Closed
5	Open	Closed	Open	Open

PLUG AND PLAY				
Setting	J2/A	J2/B	J2/C	J2/D
Disabled	Closed	Closed	Open	Open
Enabled	Open	Open	Closed	Closed

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## Proprietary AT Command Set

AUTO-RELIABLE FALLBACK CHARACTER	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] %An [cmds]
<b>Default:</b>	Unidentified
<b>Range:</b>	1-127
<b>Unit:</b>	ASCII
<b>Description:</b>	Sets the character used as the auto-reliable fallback character
<b>Note:</b>	%A0 Auto-reliable fallback character disabled

AUTO-RELIABLE TIME BUFFER CONFIGURATION	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] \Cn [cmds]
<b>Description:</b>	Controls the handling of incoming data during auto-reliable time period
Command	Function
í \CO	Disabled auto-reliable buffer
\C1	Data is buffered for 4 seconds or 200 characters
\C2	Switch to normal mode and sends auto-reliable character to serial port

AUTO FALL FORWARD/FALLBACK	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] %Gn [cmds]
<b>Description:</b>	Selects auto fallback/fall forward
Command	Function
í %G0	Fallback/fall forward disabled
%G1	Fallback/fall forward enabled

AUTO FALLBACK CHARACTER	
<b>Type:</b>	Register
<b>Format:</b>	AT [cmds] S43=n [cmds]
<b>Default:</b>	13
<b>Range:</b>	0-127
<b>Unit:</b>	ASCII
<b>Description:</b>	Set auto fallback character during MNP negotiation
<b>Note:</b>	S43=0 disabled S43=(1-127) enabled

COMPRESSION	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] %Cn [cmds]
<b>Description:</b>	Selects data compression
Command	Function
%C0	Data compression disabled
í %C1	Data compression enabled

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# MOTOROLA, INC.

## MODEMSURFR 28800 INTERNAL

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CONNECT MODE	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] \Nn [cmds]
<b>Description:</b>	Sets connect mode
Command	Function
\N0	Normal mode enabled
\N1	Direct mode enabled
\N2	MNP reliable mode enabled
í \N3	LAPM, MNP, or normal mode enabled
\N4	LAPM or MNP mode enabled

DISPLAY CONNECT MESSAGE	
<b>Type</b>	Register
<b>Format</b>	AT [cmds] S41? [cmds]
<b>Description</b>	Displays connect message
Command	Function
í S41=0	CONNECT/DTE to modem speed enabled
S41=1	CONNECT/carrier, protocol, and compression enabled
S41=2	CONNECT/modem to modem speed enabled

FLOW CONTROL	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] \Gn [cmds]
<b>Description:</b>	Selects modem port flow control
Command	Function
í \G0	Flow control disabled
\G1	Flow control enabled

FLOW CONTROL TYPE	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] \Qn [cmds]
<b>Description:</b>	Sets type of flow control used by modem
Command	Function
\Q0	Flow control disabled
\Q1	XON/XOFF flow control enabled
\Q2	CTS flow control by DTE enabled
í \Q3	CTS/RTS flow control enabled

INACTIVITY TIMER	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] \Tn [cmds]
<b>Default:</b>	0
<b>Range:</b>	0-90
<b>Unit:</b>	1 minute
<b>Description:</b>	Sets the length of time that the modem does not receive information before it disconnects

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# MOTOROLA, INC.

## MODEMSURFR 28800 INTERNAL

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LOCK SERIAL PORT	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] \Jn [cmds]
<b>Description:</b>	Sets operation of serial port speed
Command	Function
í \J0	Serial speed locked
\J1	Serial speed follows connect speed

MAXIMUM BLOCK SIZE FOR TRANSMISSION	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] \An [cmds]
<b>Description:</b>	Sets the maximum transmittable block size
Command	Function
\A0	MNP block size is 64 characters
\A1	MNP block size is 128 characters
\A2	MNP block size is 192 characters
í \A3	MNP block size is 256 characters

EXTENDED RESULT CODES	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] \Vn [cmds]
<b>Description:</b>	Selects extended result codes
Command	Function
í \V0	Extended result codes disabled
\V1	Extended result codes enabled

V.32 RETRAIN	
<b>Type:</b>	Register
<b>Format:</b>	AT [cmds] S42=n [cmds]
<b>Description:</b>	Selects action the modem will take during bad line quality on V.32/32bis connection
Command	Function
S42=0	Auto-retrain disabled, hang up
í S42=1	Auto-retrain on line quality problem enabled
S42=2	Modem ignores line quality problems
S42=3	Unidentified

V.42 DETECTION PHASE	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] -Jn [cmds]
<b>Description:</b>	Controls V.42 detection
Command	Function
-J0	V.42 detection disabled
í -J1	V.42 detection enabled

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MODEMSURFR 28800 INTERNAL

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V.42bis COMPRESSION CONTROL	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] "Hn [cmds]
<b>Description:</b>	Controls V.42bis data compression
Command	Function
"H0	V.42bis disabled
"H1	V.42bis when transmitting enabled
"H2	V.42bis when receiving enabled
í "H3	V.42bis when transmitting/receiving enabled

XON/XOFF PASS-THROUGH	
<b>Type:</b>	Configuration
<b>Format:</b>	AT [cmds] \Xn [cmds]
<b>Description:</b>	Selects whether XON/XOFF signals are sent to remote modem
Command	Function
í \X0	XON/XOFF signals trapped by local modem
\X1	XON/XOFF passed through local modem