V.3229/V.3229L
Manual

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Chapter 6
Status Registers

S-REGISTERS

Most modem configuration information is stored in a part of memory called status (S) registers. During operation this information is used to determine modem functions.
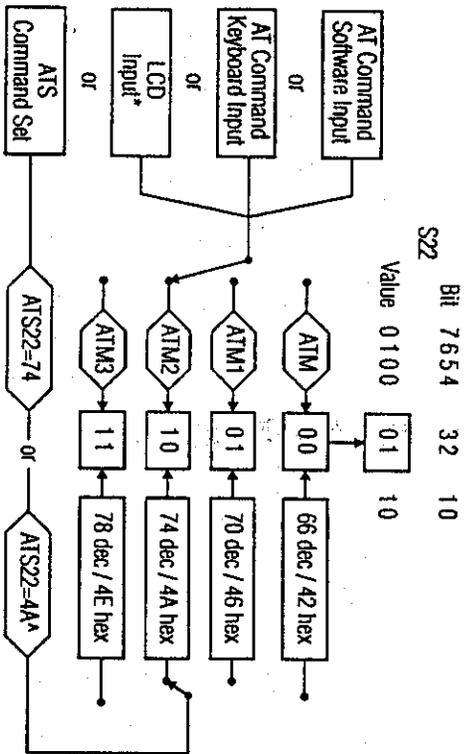
The information stored in the S-registers is changed by the AT or V.25b command sets and by pushbuttons in response to the LCD prompt. These are the preferred methods. Some software programs also access the S-registers via the AT command set, but this action is transparent to the user. The ATS commands indicate which memory bit(s) to alter to select a particular option or to perform a certain function. The S-register values comprise the configuration profile.

> Caution: The purpose of this tutorial is to show the versatility of option selection and register function. It is strongly recommended that the preferred methods of option selection be used. This tutorial uses S22 as the example register. Certain modems may use S22 differently or may not have an S22.

Generally the user should not directly alter S-register values. However, the user has the option of changing S-registers via ATS commands and directly altering the register value. This is called "writing" to the S-register. Writing to an S-register is not a preferred method and should only be used by programmers who need to manipulate S-registers so they can interact with a software program under development or some other similar action.

Certain S-registers cannot be altered by the ATS command series. These are called "read only" S-registers. Appendix D contains a listing of S-registers and indicates if they are read only or read and write.

Figure 6-1 illustrates how the different inputs to an S-register (S22 in this case) are used to select a particular option. Bits 3 and 2 of S22 control speaker options. Some communication software packages may use the AT command set. For example purposes bit values are arbitrary.

S22			
Bit	7654	32	10
Value	0100	01	10

ATM → 00 → 66 dec / 42 hex
ATM1 → 01 → 70 dec / 46 hex
ATM2 → 10 → 74 dec / 4A hex
ATM3 → 11 → 78 dec / 4E hex

ATS22=74 -- or -- ATS22=4A^

* Liquid Crystal Display models only

Figure 6-1
Changing S-Register Values

ATM	Speaker off
ATM1	Speaker on until carrier detect
ATM2	Speaker always on
ATM3	Speaker off while unit is dialing

Bit values for S-registers must not be confused with the total register value. Bit values are counted separately for each option group, called bit mapping, while the register value is the cumulative decimal or hexadecimal total. The decimal value counts all eight bits as a single group. Hexadecimal values split the bits into two groups of four each. Writing to an S-register changes the total value. Figure 6-2 illustrates the difference between decimal calculation and hexadecimal calculation.

Bit	7	6	5	4	3	2	1	0	
Decimal Value	128	64	32	16	8	4	2	1	
S22 Value	0	1	0	0	0	1	1	0	
Decimal Total		64			+	4 + 2			=70 dec

Hexidecimal Value	8	4	2	1	8	4	2	1	
S22 Value	0	1	0	0	0	1	1	0	
Hexidecimal Total		4			and	4 + 2			=46 hex

Figure 6-2
Calculating S-Register Value

> *Note: Refer to Appendix F for decimal/ hexadecimal values.*

S-REGISTER OPERATION

Enter ATSn? to read a register value, where n=register number for a decimal value; or ATSn?^ for a hexadecimal value.

For example, to determine the current backspace character enter

ATS5?

The screen will show the ASCII value of the backspace character stored in register S5.

Changing Register Values
Sn=v
Sn=^v

To change an option using ATS commands requires the operator to precalculate the revised decimal (or hexadecimal) total. Because of the chance of miscalculating the bit sum, causing unplanned option changes, writing to an S-register is discouraged. For operators who prefer this method of option selection a much simplified command that eliminates the decimal calculation is explained in the Individual Bit Command section.

Enter ATSn=v to change a register value, where n=register number and v=decimal value; or ATSn=^v,where ^v=hexadecimal value.

> *Note: Not all registers can be set by the ATSn=v (or ^v) command. Some registers are for reference only.*

To change the escape character from + to the ESC key (ASCII value of 27)

Enter ATS2=27

To return the modem to the command mode press the ESC key three times:

(pause) ESC ESC ESC (pause)

Individual Bit Command
Sn . #=v

Most operators use AT commands as the primary method of changing S-register options. However, some options stored in registers do not have an associated AT command. For these options, the individual bit AT command can be used to change the setting of the bit controlling the option.

To   Change a single bit value within a register

Enter   ATSn . # = v

where n= register number #= bit position 0 through 7 v= bit value 1 or 0

Example:

S-register 27, bit 2 selects between dial-up or leased line operation.

AT command method:

AT&L   selects dial-up operation (sets S27 bit 2 to 0)

AT&L1 selects leased line operation (sets S27 bit 2 to 1)

Individual bit method:

ATS27.2=0   selects dial-up operation (sets S27 bit 2 to 0)

ATS27.2=1   selects leased line operation (sets S27 bit 2 to 1)

> *Note: This way of selecting options can be used on all S-registers except read only registers.*

Autoanswer
S0=0-255

This register turns the option on or off. Set the register to 0 to turn autoanswer off.

Set the register to any value other than zero (1-255) to turn autoanswer on. The number selected is the ring count the modem answers on. For example, if S0 equals 4, the modem answers the call on the fourth ring. The default value is 1.

Ring Count
S1=0-255

This register contains the ring count for a current incoming call and should not be changed. The user can read the register to determine the ring total.

Escape Character
S2=0-255

The standard escape character is a + sign (ASCII value of 43). To change the character, set S2 to the desired ASCII value.

To disable the escape command, set S2 to any value greater than 127.

End-of-Line
Character
S3=0-127

The standard end of line character is the carriage return (ASCII value of 13). This character ends each command as it is sent to the modem. It is also sent by the modem after each status message or number code.

To change the character, set S3 to the desired ASCII value (0-127).

Line Feed
Character
S4=0-127

The standard character is the line feed (ASCII value of 10). This character is sent by the modem after each status message. To change it, set S4 as desired (0-127).

Backspace
Character
S5=0-127

The standard character is the backspace (ASCII value of 8). To change it, set S5 to the desired value (0-127).

Pause Before
Dialing
S6=0-255

When dial tone detection is disabled (command X, X1, or X3 in effect), the modem waits the number of seconds (0-255) stored in this register before dialing. The default value is 2 (seconds).

Pause for
Ringback and
Carrier Detection /
Wait for 2nd Dial
Tone
S7=1-255

If no ringback is detected in the number of seconds in S7 (1-255), the modem disconnects and sends the NO CARRIER message or code. If ringback is detected, the modem begins to look for a carrier.

If no carrier is detected within the number of seconds in S7, the modem hangs up and sends the NO CAR-RIER message or code.

Values between 1 and 255 may be used. The default value is 30 (seconds).

Pause Interval for
Comma
S8=0-255

When a dial command contains a comma, the modem pauses the number of seconds in S8.

Change S8 to change the basic pause interval (0-255), or use several commas in a row for greater delay during dialing.

The default value is 2 (seconds).

Carrier Detect
Time
S9=0-255

S9 contains the amount of time (0-255) in 0.1 second increments the carrier must be present to be recognized. The default value is 6 (0.6 second). This timer can be extended to lessen the likelihood of false detection of carrier.

Lost Carrier
Detect Time
S10=0-255

S10 contains the amount of time (0-255) in 0.1 second increments carrier must be absent to be recognized as a loss of carrier. The default value is 14 (1.4 seconds).

DTMF Tone
Duration
S11

S11 determines the length of DTMF tones. The period of silence is equal to the duration of the tone. The value of this register must be entered in multiples of 10. Default value is 80 (80 ms).

Escape Sequence Pause
S12=0-255

Using the escape sequence to return to command mode from data mode requires two pauses, one before and one after the escape characters.

The pauses prevent the modem from responding to a character sequence which might contain the escape sequence as part of its normal data transmission.

S12 contains the pause interval in 0.02 second increments. The factory setting is 50, equivalent to 1 second (50 x 0.02 sec). When S12 is 0 then timing is not a factor.

The timing between the 3 escape characters must be less than the pause interval or the escape sequence will not be detected. The data rate also affects the timing and must be taken into account when changing the pause interval.

To disable the escape command, set S2 to a value greater than 127 instead of changing S12. Values between 0 and 255 may be used for S12.

> *Note: When S-registers have parallel AT commands, the commands are listed in the register tables as a cross reference. If no command exists for the option the column is left blank.*

S13

Not used

Bit Mapped
S14

Bit	Value	Command	Description
0	--	--	Reserved
1	0	E	Local character echo off
	*1	E1	Local character echo on
2	*0	Q	Response messages on
	1	Q1	Response messages off
3	0	V	Response messages as digit codes
	*1	V1	Response messages as words
4	*0	Q2	Ignore Response messages in originate mode only
	1		
5	*0	T	Tone dial
	1	P	Pulse dial
6	--	--	Reserved
7	0	*OR1	Forced answer
	*1	*OR	Normal originate

* default

> *Note: Registers that contain more than one option are called "bit mapped" registers.*

S15

Reserved

System Tests
S16

This register contains the status of system test options. For reference only.

Bit	Value	Command	Description
0	0	--	Analog loopback inactive
	1		Analog loopback in progress
1	--	--	Reserved
2	0		Digital loopback inactive
	1		Digital loopback in progress
3	0		Slaved digital loopback inactive
	1		Slaved digital loopback in progress
4	0		Remote digital loopback inactive
	1		Remote digital loopback in progress
5	0		Self test remote digital loopback inactive
	1		Self test remote digital loopback in progress
6	0		Self test analog loopback inactive
	1		Self test analog loopback in progress
7	--	--	Reserved

S17

Not used

Test Timeout
S18

The amount of time, in 1 second increments, that a diagnostic test will run is determined by the value assigned to S18 (0-255). A value of 0 disables the timer allowing a test to run indefinitely. The default value is 0.

S19, 20

Not used

Bit Mapped
S21

Bit	Value	Command	Description
6, 0	*00	&S	DSR always on
	10	&S1	DSR on when off hook in data mode
	01	&S2	DSR off 5 seconds after disconnect
	11	&S3	DSR follows off hook (OH)
5, 1	*00	&C	DCD always on
	10	&C1	DCD on while carrier present
	01	&C2	DCD on except for 5 seconds after disconnect
	11	&C3	DCD follows RTS on remote modem; not valid in reliable or buffered mode
2	0	&R	CTS follows RTS by S26 delay
	*1	&R1	CTS always on
4, 3	*00	&D	DTR ignored
	01	&D1	DTR on-to-off transition recalls asynchronous command state
	10	&D2	DTR on-to-off transition causes disconnect
	11	&D3	DTE on-to-off transition resets modem to current stored configuration and enters command mode
7	0	Y	Long space disconnect disabled
	*1	Y1	Long space disconnect enabled

* default

S22
Bit Mapped

Bit	Value	Command	Description
1,0	00	L	Speaker volume low
	01	L1	Speaker volume low
	*10	L2	Speaker volume medium
	11	L3	Speaker volume high
3,2	00	M	Speaker off
	*01	M1	Speaker on until carrier detect
	10	M2	Speaker always on
	11	M3	Speaker off when modem is dialing
6-4	000	X	CONNECT message only, blind dials, no busy detect
	001	X1	CONNECT / appropriate code for rate, blind dials, no busy detect
	010	X2	CONNECT / appropriate code for rate, waits for dial tone, no busy detect
	011	X3	CONNECT / appropriate code for rate, blind dials, reports BUSY
	*100	X4	CONNECT / appropriate code for rate, waits for dial tone, reports BUSY
7	*0	&P	Make / break ratio (US) 39/61
	1	&P1	Make / break ratio (UK) 33/67

default

S23
Bit Mapped

Bit	Value	Command	Description
0	0	&T5	Remote digital loop request denied
	*1	&T4	Remote digital loop request granted
5-1	---	---	Reserved
7,6	*00	&G	No guard tones
	01	&G1	550 Hz guard tone
	10	&G2	1800 Hz guard tone

default

S24

Not used

DTR State Recognition
S25

The S25 register specifies the amount of time (0-255) in 0.01 second (10 ms) increments that DTR must stay high or low in order to be recognized as such. The default value is 5 (0.05 second).

RTS/CTS Delay
S26

The S26 register specifies the amount of time (0-255) in 0.01 second (10 ms) increments between the RTS signal and the CTS signal. The default value is 0.

Bit Mapped
S27

Bit	Value	Command	Description
1,0	*00	&M	Async
	01	&M1	Sync data / async dial
	10	&M2	Sync data / dial through DTR
	11	&M3	Sync data / manual dial
2	*0	&L	Dial-up line
	1	&L1 and &L2	Leased line
3	-	-	Reserved
5,4	*00	&X	Internal clock
	01	&X1	External clock
	10	&X2	Receive clock
6	0		Enable async DTR dialer
	*1		Disable async DTR dialer
7	-	-	Reserved

default

Lookback Timer
S28

The S28 register specifies the amount of time in 1.0 minute increments that the modem will remain in dial backup mode before retrying leased line mode. This is only used if automatic dial backup is enabled. A zero will disable automatic lookback to leased line. The default value is 15 minutes.

Bit	Value	Command	Description
7-0	0-255		Time in 1 minute increments (0=disabled)

default

Bit Mapped
S29

Bit	Value	Command	Description
0	*0	*NT1	Enable AT command set
0	1	NT	Disable AT command set
1	*0	*RO	Options retained at disconnect
1	1	RO1	Options restored at disconnect
2	*0	*FT	Disable V.32 fast train
2	1	FT1	Enable V.32 fast train
6-3	-	-	Reserved
7	*0	*FB	DTE fallback disabled
7	1	FB1	DTE fallback enabled

*default

Bit Mapped
S30

Bit	Value	Command	Description
0	-	-	Reserved
1	*0		V.25 ASCII
1	1		V.25 EBCDIC
4-2	-	-	Reserved
5	*0		NRZ
5	1		NRZI
7, 6	00		V.25 disabled
	01	&M4	V.25 bisync enabled
	10	&M5	V.25 SDLC enabled
	*11		Async enabled

*default

4-Wire Leased Line Training Sequence
S31

Bit	Value	Command	Description
0	*0	-	V.33 training sequence
0	1		V.32 training sequence
7-1	-	-	Reserved

*default

Bit Mapped
S32

Bit	Value	Command	Description
0	0	&L1	2-wire (leased line only)
0	1	&L2	4-wire (leased line only)
1	0	*LC1	Line current disconnect = short
1	*1	*LC2	Line current disconnect = long
2	0	*LC or *LC2	Line current disconnect = disable
2	1		Line current disconnect = enable
3	*0	*DB	Dial backup = manual
3	1	*DB1	Dial backup = automatic
7-4	-	-	Reserved

*default

S33

Reserved

Bit Mapped
S34

Bit	Value	Command	Description
0	*0	*AN	Bilateral analog = disable
	1	AN1	Bilateral analog = enable
1	*0	*DG	Bilateral digital = disable
	1	DG1	Bilateral digital = enable
2	*0	*LA	DTE commanded LAL = disable
	1	LA1	DTE commanded LAL = enable
3	*0	*RD	DTE commanded RDL = disable
	1	RD1	DTE commanded RDL = enable
7-4	-	-	Reserved

default

S35-38
Reserved

Connect Message
S39

Bit	Value	Command	Description
4-0	-	-	Reserved
5	*0	-	Send connect message DTE rate
	1	-	Send connect message DCE rate
7-6	-	-	Reserved

default

S40-50
Reserved

Bit Mapped
S51

The S51 register selects dial line transmit level from -9 to -21 dBm in 1dB increments.

Bit	Value	Command	Description
4-0	9 to 21	*TDn	Transmit level in dBm (-9 through -21 dBm)
7-5	-	-	Reserved

default

Bit Mapped
S52

The S52 register selects leased line transmit level from 0 to -21 dBm in 1 dB increments.

Bit	Value	Command	Description
3-0	*0 to 21	*Ln	Transmit level in dBm (0 through -21 dBm)
7-4	-	-	Reserved

default

801 V.32 Timeout
S53

The S53 register selects 801 (ACU) V.32 timeout.

Bit	Value	Command	Description
0	*0	-	801 V.32 timeout long
	1	-	801 V.32 timeout short
1	-	-	Reserved
3, 2	*00	%R	Auto rate renegotiation threshold disabled
	01	%R1	Low BER
	10	%R2	Medium BER
	11	%R3	High BER
7-4	-	-	Reserved

default

Flow Control
S54

The S54 register selects the flow control options.

Bit	Value	Command	Description
1,0	00	\Q	Disable DTE flow control
	*01	\Q1	Enable DTE XON/XOFF flow control
	10	\Q2	Enable CTS flow control to the DTE
	11	\Q3	Enable bilateral CTS/RTS flow control
2	-	-	Reserved
3	*0	\G	Disable modem port flow control
	1	\G1	Enable modem port XON/XOFF flow control
4	*0	\X	No XON/XOFF characters to remote
	1	\X1	Pass XON/XOFF characters to remote
6,5	00	\Q4	Disable flow control from DCE
	*01	\Q5	Enable XON/XOFF flow control
	10	\Q6	Enable CTS flow control to the DTE
	11	\Q7	Enable CTS flow control to the DTE
7	-	-	Reserved

* default

S55

Reserved

V.42 Compression
Control
S56

Bit	Value	Command	Description
1,0	00	%C	Compression disabled
	*01	%C2	Compression enabled on transmit data only
	10	%C3	Compression enabled on receive data only
	*11	%C1	Compression enabled on transmit and receive data
7-2	-	-	Reserved

* default

Number Code
Application
S57

Bit	Value	Command	Description
0	*0	*RC	Standard number codes 15 - 4800 bps 18 - 9600 bps
	1	*RC1	Alternate number codes 11 - 4800 bps 12 - 9600 bps
7-1	-	-	Reserved

* default

Inactivity Timer
S58

The S58 register specifies the number of minutes the modem waits before terminating a call when no data is sent or received. This register is active when in error control mode. 0 disables timer.

Bit	Value	Command	Description
7-0	*0	\T	Disable
	1-255	\Tn	Timer value in minutes (n=1-255)

* default

Break Control
S59

The S59 register determines the action taken when a break is encountered. Refer to Break Control section in Chapter 5 for further explanation.

Bit	Value	Command	Description
2-0	000	\K	Break option 0
	001	\K1	Break option 1
	010	\K2	Break option 2
	011	\K3	Break option 3
	100	\K4	Break option 4
	*101	\K5	Break option 5
7-3	-	-	Reserved

* default

Bit Mapped
S60

Bit	Value	Command	Description
0	0	%E	Disable auto retrain
	*1	%E1	Enable auto retrain
1	-	-	Reserved
2	*0	\C	Disable auto-reliable data buffer
	1	\C1	Buffer data for 4 seconds or 200 characters
5-3	111	\O	Originate an MNP link
	110	\U	Accept an MNP link
	101	\Y	Switch to MNP from normal
	100	\Z	Switch to normal from MNP
	*011- 000		Mode selected from S70
6	0	\R	RI blinks for ring and remains on for duration of call
	*1	\R1	RI blinks for ring and turns off when call is answered
7	*0	\V	Disable protocol result codes
	1	\V1	Enable protocol result codes

default

DTE Options
S61

The S61 register indicates the character size and parity. This register is for reference only.

Bit	Value	Command	Description
2-0	-	-	Reserved
3	0	-	7 bit word length
	1	-	8 bit word length
5, 4	00		Mark parity
	01		No parity
	10		Odd parity
	11		Even parity
7, 6	-	-	Reserved

default

Disconnect Buffer Delay
S62

The S62 register determines the delay before disconnect, to allow buffers to empty, when disconnect conditions exist.

Bit	Value	Command	Description
7-0	*0	%D	Buffer disabled
	1-255	%Dn	Disconnect buffer delay value (n=1-255 seconds)

default

Maximum Transmit Block Size
S63

The S63 register sets the maximum transmit block size.

Bit	Value	Command	Description
7-0	63	\A	Maximum block size = 64
	127	\A1	Maximum block size = 128
	191	\A2	Maximum block size = 192
	*255	\A3	Maximum block size = 256

default

Auto-Reliable Fallback Character
S64

The S64 register stores the selected ASCII value of the auto-reliable fallback character.

Bit	Value	Command	Description
7-0	*0	%A	Disable auto-reliable fallback character
	1-127	%An	ASCII value 1-127 (n=1-127)

default

S65

Reserved

Bit Mapped
S66

Bit	Value	Command	Description
0	0	&Y	User option 1 loaded at powerup/reset
	1	&Y1	User option 2 loaded at powerup/reset
7-1	-	-	Reserved

Link Speed Status
S67

The S67 register indicates the true data link (DCE) speed. This register is for reference only.

Bit	Value	Command	Description
3-0	0000	N/A	
	0001		300 bps
	0010		1200 bps
	0011		2400 bps
	0100		4800 bps
	0101		7200 bps
	0110		9600 bps uncoded
	0111		9600 bps trellis
	1000		12000 bps
	1001		14400 bps
7-4	–	–	Reserved

*default

S68

Reserved

DCE Independent
Speed
S69

The S69 register selects the DCE independent rate operation. When S69 is 0, DTE and DCE rates are equal and the maximum originate connect rate up to 14400 bps is determined by S80. When S69 is non-zero, the maximum originate connect rate is determined by S69.

Bit	Value	Command	Description
3-0	0000	%B	Use rate indicated by S80
	0001	%B1	300 bps
	0010	%B2	1200 bps
	0011	%B3	2400 bps
	0100	%B4	4800 bps
	0101	%B5	9600 bps uncoded
	0110	%B6	9600 bps trellis
	0111	%B7	7200 bps
	1000	%B8	12000 bps
	*1001	%B9	14400 bps
7-4	–	–	Reserved

*default

Operating Mode
Status
S70

The S70 register determines the protocol operating mode and action taken on an error correcting attempt failure. LAPM is assigned highest priority.

Example: With \N7 selected the modem tries a LAPM connection first; if unsuccessful the modem tries an MNP connection; if also unsuccessful the modem connects in normal mode. Modes allowing protocol fallback are referred to as auto-reliable.

Bit	Value	Command	Description
2-0	000	\N	Normal
	001	\N1	Direct
	010	\N2	MNP only (reliable)
	011	\N3	MNP or normal (auto-reliable)
	100	\N4	LAPM only (reliable)
	101	\N5	LAPM or normal (auto-reliable)
	110	\N6	LAPM or MNP only (auto-reliable)
	*111	\N7	LAPM or MNP or normal (auto-reliable)
3	0	\W	Disable V.42 fast detect
	*1	\W1	Enable V.42 fast detect
7-4	–	–	Reserved

*default

Operating Mode
Status
S71

The S71 register indicates the level of error control-ling protocol. This register is for reference only.

Bit	Value	Command	Description
2-0	000		Protocol not active
	001		Protocol negotiation in progress
	010		MNP level 2 active
	011		MNP level 3 active
	100		MNP level 4 active
	101		MNP level 5 active (MNP with data compression
	110		LAPM active
	111		LAPM with data compression active
7-3	–	–	Reserved

*default

Bit Mapped
S72

Bit	Value	Command	Description
0	*0	\J	Disable slaved DTE/DCE (constant speed DTE on)
	1	\J1	Enable slaved DTE/DCE (constant speed DTE off)
1	*0		Link parity option disabled
	1		Link parity option enabled
2	0		No link parity error
	1		Link parity error received (cleared on read)
3	0	&R2	CTS does not follow DCD
	1		CTS follows DCD
4	0	&R9	CTS does not equal RTS
	1		CTS equals RTS
6-5	--	--	Reserved
7	*0		Disable autocallback
	1		Enable autocallback

default

S73-77

Reserved

Autocallback Timer
S78

The S78 register specifies the time in seconds that the modem waits before initiating autocallback. The default is 30 seconds.

Bit	Value	Command	Description
7-0	0-255		Time in seconds before autocallback

Break Length
S79

The S79 register sets the length of the break sent to the DTE when a break signal is received. Range from 1-255 in 20 ms increments. Default is 35 (700 ms).

Bit	Value	Command	Description
7-0	1-255	\B	Send break
		\Bn	Set break length (n=1-255)

Serial Port Speed
S80

The S80 register indicates the serial port speed.

Bit	Value	Command	Description
3-0	0001		300 bps
	0010		1200 bps
	0011		2400 bps
	0100		4800 bps
	0101		7200 bps
	*0110		9600 bps
	0111		12000 bps
	1000		14400 bps
	1001		19200 bps
	1010		38400 bps
	1011		57600 bps
7-4	--	--	Reserved

default

S81-83

Reserved

Bit Mapped
S84

Bit	Value	Command	Description
0	0*	–	Any key abort enabled
	1		Any key abort disabled
1	0*		Remote DCD goes low in RDL and remote configuration
	1		Remote DCD goes high in RDL and remote configuration
2	0*		Fallback to V.22 rates normally
	1		Reduced time to fallback to V.22 rates
3	0*		Answerback normally
	1		Reduced answerback time
4	0*		With DTR disconnects, 4 DTR transitions initiate dial backup
	1		With DTR disconnects, 1 DTR transition initiates dial backup
7-5	–	–	Reserved

default

S85-90   Reserved

GENERAL

V.25 bis is an option that allows dialing functions to be controlled using synchronous data.

Select V.25 bis through the appropriate &M command in the AT command set (Chapter 5).

If using the LCD

☐ Scroll through the menu to Main Menu 5, MODIFY CONFIGURATION.

☐ Advance to and enter the DTE PARAMETERS submenu.

☐ Select SYNC DATA.

☐ Advance to DIAL METHOD.

☐ Select either V.25 BISYNC DIALER or V.25 SDLC DIALER or V.25 ASYNC DIALER and then select either ASCII or EBCDIC character format.

> *Note: The modem must be configured as V.25 SDLC ASCII NRZ for use with an AS400 IBM computer.*

Autodialer Command Strings and Parameters

Most command strings for the autodialer include two parts: the command itself and the parameter(s) that follow. For the purposes of this chapter, parameters can be telephone numbers or anything appropriate to V.25 bis as described in the following text. Parameters are separated by semicolons.