

REGISTER	RANGE	UNIT	FUNCTION	DEFAULT
S0	0-255	rings	Defines the ring to answer on	1*
S1	0-255	rings	Number of rings passed	0
S2	0-127	ASCII	Defines escape code character	43
S3	0-127	ASCII	Defines CR code character	13
S4	0-127	ASCII	Defines LF code character	10
S5	0-127	ASCII	Defines BS code character	8
S6	0-255	seconds	Defines dial tone wait time	2
S7	0-255	seconds	Defines carrier wait time	30
S8	0-255	seconds	Defines pause time	2
S9	0-255	1/10 sec.	Defines carrier detect response time	6
S10	0-255	1/10 sec.	Hang up delay after loss of carrier	7
S11	50-255	millisec.	Defines touch-tone duration, spacing	70
S12	20-255	1/50 sec.	Defines escape code guard time	50
S13	—	bitmapped	UART status register	—
S14	—	bitmapped	Option register	—
S15	—	bitmapped	Flag register	—
S16	0-1		1 = loop back	—

* The default of this register is controlled by the auto answer option switch.

If the switch is OPEN, then S0 = 1; if the switch is CLOSED, then S0 = 0.

BIT-MAPPED REGISTERS

S13, S14 and S15 are bit-mapped registers. The supported register bits are defined in the tables below.

A bit-mapped register provides some useful information and may be accessed through your own program. However, do not use this register to control the modem. WRITING TO A BIT-MAPPED REGISTER MAY PRODUCE UNPREDICTABLE RESULTS.

REGISTER S13 UART STATUS

BIT	VALUE	DESCRIPTION

0	—	Undefined *
1	—	Undefined *
2	0 1	Parity disabled Parity enabled
3	0 1	Odd parity Even parity
4	0 1	7 data bits/word 8 data bits/word
5	— 1	Undefined * Buffer Overflow Flag (renders ERROR result code)
**	7 1	8th data bit set to space 8th data bit set to mark

* undefined bits may be 0 or 1 at random

** This bit only has meaning if bit 4 = 1 & bit 2 = 0

REGISTER S14 — OPTION REGISTER

BIT	VALUE	DESCRIPTION
0	0 1	Auto-Answer CLOSED at Power Up Auto-Answer OPEN at Power Up (This value is not influenced by S0=n command)
1	0 1	Local Echo Disabled Local Echo Enabled
2	0 1	Result Codes Enabled Result Codes Disabled
3	0 1	Result Codes as Numbers Result Codes as Words (see Vn command)
4	—	Undefined *
5	—	Undefined *
6	1	Speaker enabled until Carrier Flag **
7	1	Speaker Enabled Always Flag **

* undefined bits may be 0 or 1 at value

** Bits 6 and 7 must be zero to turn off speaker
(see Mn command)

REGISTER S15 — FLAG REGISTER

BIT	VALUE	DESCRIPTION
0		Same as bit 4
1		Same as bit 5
2	0	Answer or Originate
3	0 1	Half-Duplex Full-Duplex
4	1 0	110 or 1200 baud Otherwise
5	1 0	300 or 1200 baud Otherwise
6	1 0	Carrier on Carrier off
7		Undefined

Note: bits 4 and 5 will not be "0" at the same time.

(dkh-07/28/93)