

Low Power Sleep Mode

Sleep Mode Entry.

The modem enters the low power sleep mode when no line connection exists and no host activity occurs for the period of time specified in the S24 register. All modem circuits are turned off except the internal clock circuitry in order to consume reduced power while being able to immediately wake up and resume normal operation.

Wake-up.

Wake-up occurs when a ring is detected on the telephone line, the host writes to the modem (parallel interface), or the DTE sends a character to the modem (serial interface).

S24 - Sleep Inactivity Timer

S24 sets the length of time, in seconds, that the modem will operate in normal mode with no detected telephone line or DTE line activity before entering low-power sleep mode. The timer is reset upon any DTE line or telephone line activity. If the S24 value is zero, neither DTE line nor telephone inactivity will cause the modem to enter the sleep mode.

Range: 0-255 seconds

Default: 0

AL4094S Power Requirements:

Mode	Typical Current (I _{typ}) (mA)
Normal Mode: On-hook, idle, waiting for ring	105
Sleep Mode	48

AL3094S Power Requirements:

Mode	Typical Current (I _{typ}) (mA)
Normal Mode: On-hook, idle, waiting for ring	93
Sleep Mode	39

AL2094S Power Requirements:

Mode	Typical Current (I _{typ}) (mA)
Normal Mode: On-hook, idle, waiting for ring	60
Sleep Mode	17

VERSION	DATE	NAME	REMARKS	PROJECT
1	22.09.05	A.Bircher	Sleep mode application note	AL4000 / AL2000
2	26.10.08	A.Bircher	New Types	AL4094S
20.01.09			1	AL4094S-SLM-000