



Note: This IBM PC BIOS API call is for DOS/Win16 personality only. Use [Family API](#) for portability.

Note: [osFree Macro Library](#) provides macros for most of functions

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@AuxInit

Brief

Initialize serial port

Syntax

```
@AuxInit port, settings
```

Parameters

- port (WORD) - port number
- settings (BYTE) - port settings

Baud rates is passed in the high order 3 bits as follows:

| | |
|-----|-----------|
| 000 | 110 baud |
| 001 | 150 baud |
| 010 | 300 baud |
| 011 | 600 baud |
| 100 | 1200 baud |
| 101 | 2400 baud |
| 110 | 4800 baud |
| 111 | 9600 baud |

Bits 4-3 define parity:

```

0 0      no parity
1 0      no parity
0 1      odd parity
1 1      even parity

```

Bit 2 defines stop bits:

| | |
|---|-------------|
| 0 | 1 stop bit; |
| 1 | 2 |

Bits 1-0 character length:

| | |
|-----|--------|
| 1 0 | 7 bits |
| 1 1 | 8 bits |

Return

- AX - port status

Bitfields for serial line status (AH):

| Bit(s) | Description |
|--------|---------------------------------|
| 7 | timeout |
| 6 | transmit shift register empty |
| 5 | transmit holding register empty |
| 4 | break detected |
| 3 | framing error |
| 2 | parity error |
| 1 | overrun error |
| 0 | receive data ready |

Bitfields for modem status (AL):

| Bit(s) | Description |
|--------|---------------------------------|
| 7 | carrier detect |
| 6 | ring indicator |
| 5 | data set ready |
| 4 | clear to send |
| 3 | delta carrier detect |
| 2 | trailing edge of ring indicator |
| 1 | delta data set ready |
| 0 | delta clear to send |

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