



**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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