



**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 ''
010 = 300 ''
011 = 600 ''
100 = 1200 ''
101 = 2400 ''
110 = 4800 ''
111 = 9600 ''
```

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:

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:

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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