

NAME

umcs - USB support for serial adapters based on the MCS7820 and MCS7840 chips

SYNOPSIS

To compile this driver into the kernel, place the following lines in your kernel configuration file:

```
device usb
device ucom
device umcs
```

Alternatively, to load the driver as a module at boot time, place the following line in loader.conf(5):

```
umcs_load="YES"
```

DESCRIPTION

The **umcs** driver provides support for various multiport serial adapters based on the MosCom MCS7820 and MCS7840 chips. They are 2- or 4-port adapters with full-featured 16550-compatible UARTs and very flexible baud generators. Also, these chips support RS422/RS485 and IrDA operations.

The device is accessed through the ucom(4) driver which makes it behave like a tty(4).

Different ports on device are presented as sub-units, like */dev/ttyU0.1* and */dev/ttyU0.2*.

HARDWARE

The **umcs** driver was tested on the following adapters:

- ST Lab U-360 two-port serial USB adapter
- ST Lab U-400 four-port serial USB adapter

FILES

```
/dev/ttyU*.*    for callin ports
/dev/ttyU*.*.init
/dev/ttyU*.*.lock
                    corresponding callin initial-state and lock-state devices

/dev/cuaU*.*   for callout ports
/dev/cuaU*.*.init
/dev/cuaU*.*.lock
                    corresponding callout initial-state and lock-state devices
```

SEE ALSO

tty(4), ucom(4), usb(4)

HISTORY

The **umcs** driver appeared in ports since December of 2010.

AUTHORS

The **umcs** driver was written by Lev Serebryakov <*lev@FreeBSD.org*>.

BUGS

This driver doesn't support access to any fine tunes of chip, like RS522/RS485 mode, non-standard baudrates, etc.