# **AVR-CDC Evaluation Summary**

# 1. Host Controller Interface and OS

There are two implementations in USB 1.1 host controller interface.

UHCI: Intel 845G, 440ZXM, VIA VT6202, 6212L, ...

OHCI: NEC uPD720100A, uPD720101, Ali M5273, OPTi 82C861, SiS7001, ...

os	Win XP	Win 2000	KNOPPIX 3.7	KNOPPIX 5.0	Debian 3.1	Mac OS X
Host	SP2	SP4	Kernel 2.4	Kernel 2.6	Kernel 2.6	(Mac G4)
UHCI	*1	*1	0	*2	*2	?
OHCI	0	0	0	0	0	0

<sup>\*1:</sup> The quality depends on CPU speed ( >2GHz is OK).

# 2. Transfer Speed

# ATtiny45

Transfer		Half Duplex	Half Duplex	Full Duplex
bps		USB -> RS-232C	RS-232C -> USB	
96	600	0	X	X
4800		0	0	Х
2400		0	0	0

# ATmega48

Transfer	Half Duplex	Full Duplex	Half Duplex	Full Duplex
bps	(Interrupt)	(Interrupt)	(Polling)	(Polling)
115.2K	0	Х	X	X
57.6K	0	0	X	X
38.4K	0	0	0	X
19.2K	0	0	0	0

<sup>\*2:</sup> uhci\_q.c / usb\_uhci.c must be modified to enable bulk transfer.