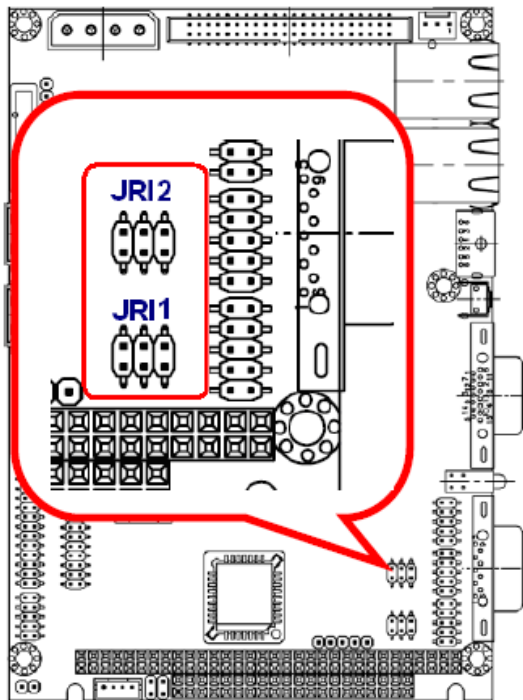# FAQ / Application Note

Subject : Different setting for RS232/422/485 of COM2 with ECM-LX800	
FAQ Document No: H09005	Date: 2009/01/21
Model Name. ECM-LX800	Rev. A1
Category: ☐General ■H/W ■S/W ☐Others, I/O Interface Application	
Purpose : In ECM-LX800B, modified the hardware design, therefore RS232/422/485 serial ports selection are controlled by hardware, In ECM-LX800A setting in BIOS	

For ECM-LX800B, just only setting the JUMPER on the board

   It does not need setting through the BIOS

   Please refer to the pictures below

2.3.3   COM2－Ring, +5V, +12V power / RS232,422,485 select(JRI2)

Avalue Technology Inc.

7F, 228, Lian-Cheng Road, Chung Ho City, Taipei, Taiwan R.O.C.

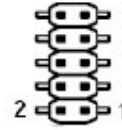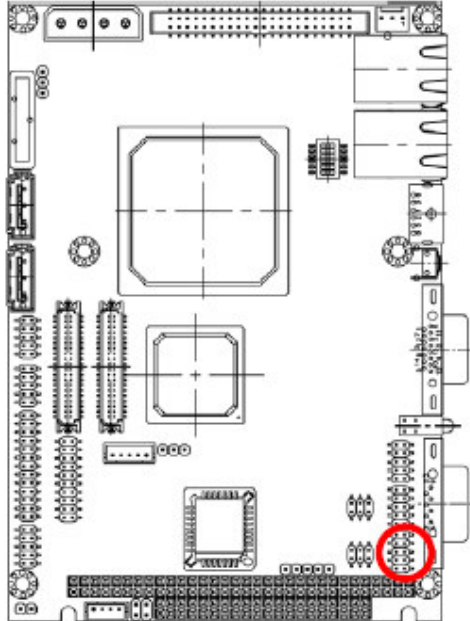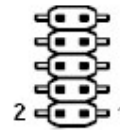| www.avalue.com.tw
sales@avalue.com.tw
Tel:+886-2-82262345
Fax:+886-2-82262777 | Avalue Europe
sales.europe@avalue.com.tw
Tel: +45-7025-0310
Fax: +45-4975-5026 | Avalue USA
sales@avalue-usa.com
Tel: +1-732-578-0200
Fax: +1-732-578-0250 | BCM Advanced Research
BCMSales@bcmcom.com
Tel: +1-949-470-1888
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sales.china@avalue.com.cn
Tel: +86-21-5426-3399
Fax: +86-21-6495-0370 |

www.avalue.com.tw

Modify your cable pin assignment based on the following in order to use RS232/422/485

2.3.8 Serial port 2 connector in RS-232 Mode (JCOM2)

Signal	PIN	PIN	Signal
DCD	1	2	RxD
TxD	3	4	DTR
GND	5	6	DSR
RTS	7	8	CTS
RI	9	10	NC

2.3.9 Serial port 2 connector in RS-422 Mode (JCOM2)
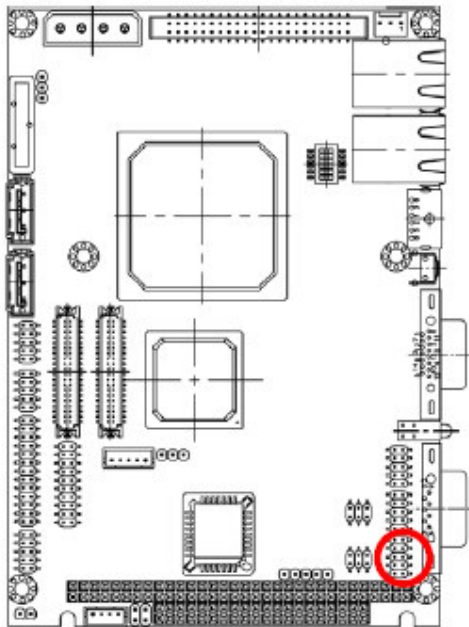
Signal	PIN	PIN	Signal
TxD-	1	2	RxD+
TxD+	3	4	RxD-
GND	5	6	NC
NC	7	8	NC
NC	9	10	NC

2.3.10 Serial port 2 connector in RS-485 Mode (JCOM2)

2 ⬚ 1
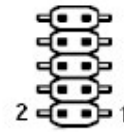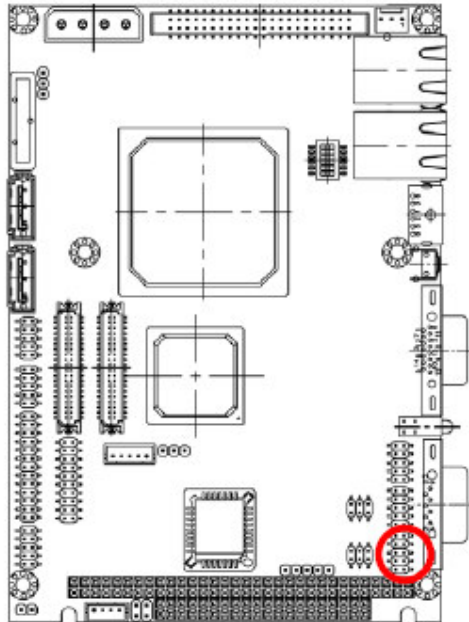
Signal	PIN	PIN	Signal
DATA-	1	2	NC
DATA+	3	4	NC
GND	5	6	NC
NC	7	8	NC
NC	9	10	NC

For ECM-LX800A

Just only setting in BIOS, Integrated Peripherals → Serial Port 2 Mode refer to the pictures below

Serial Port 2 Mode	232, 422, 485	Select the mode of serial port 2.

```
              Phoenix - AwardBIOS CMOS Setup Utility
                     Integrated Peripherals

    On-Chip IDE Channel 1        [Enabled]          ▲        Item Help
    Master Drive PIO Mode        [Auto]
    Slave  Drive PIO Mode        [Auto]                  Menu Level    ▶
    IDE Primary Master UDMA      [Auto]
    IDE Primary Slave  UDMA      [Auto]
    IDE DMA transfer access      [Enabled]
  ▶ IT8888 ISA Decode IO         [Press Enter]
  ▶ IT8888 ISA Decode Memory     [Press Enter]
    IDE HDD Block Mode           [Enabled]
    Onboard FDC Controller       [Enabled]
    Onboard Serial Port 1        [3F8/IRQ4]
    Serial Port 2 Mode           [232]
    Onboard Serial Port 2        [2F8/IRQ3]
    UART Mode Select             [Normal]
    RxD , TxD Active             [Hi,Lo]
    IR Transmission Delay        [Enabled]
    UR2 Duplex Mode              [Half]
    Use IR Pins                  [IR-Rx2Tx2]
    Onboard Parallel Port        [378/IRQ7]          ▼

  ↑↓→←:Move  Enter:Select  +/-/PU/PD:Value  F10:Save  ESC:Exit  F1:General Help
     F5: Previous Values    F6: Fail-Safe Defaults   F7: Optimized Defaults
```