

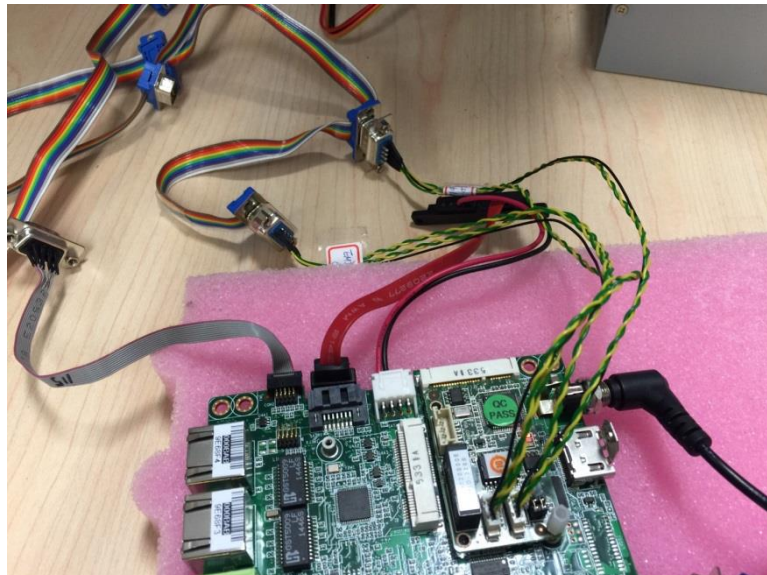
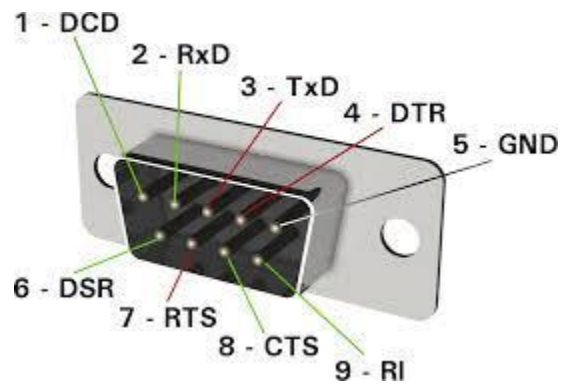
UTX-3115 with EMIO-220S Testing RS-485

Connection:

Connect pin 1 to pin 1, pin2 to pin 2 and pin 5 to pin 5

RS-485 pin assignment

Pin1	DATA-	Transmitted and Received Data -
Pin2	DATA+	Transmitted and Received Data +
Pin3	N/C	No Connection
Pin4	N/C	No Connection
Pin5	GND	Common Ground
Pin6	N/C	No Connection
Pin7	N/C	No Connection
Pin8	N/C	No Connection
Pin9	N/C	No Connection



Step 1: Login console and tty2

Switch to console: Ctrl+ Alt + F1

```
Wind River Linux 5.0.1.33 WR-IntelligentDevice console
WR-IntelligentDevice login: root
Password:
Last login: Thu Jul 7 10:58:34 UTC 2016 on tty2
root@WR-IntelligentDevice:~# _
```

Switch to tty2: Ctrl+ Alt + F2

```
Wind River Linux 5.0.1.33 WR-IntelligentDevice tty2
WR-IntelligentDevice login: root
Password:
Last login: Thu Jul 7 11:32:28 UTC 2016 on console
root@WR-IntelligentDevice:~# _
```

Step2: Check serial device name

```
Wind River Linux 5.0.1.33 WR-IntelligentDevice console
WR-IntelligentDevice login: root
Password:
Last login: Thu Jul 7 10:58:34 UTC 2016 on tty2
root@WR-IntelligentDevice:~# dmesg |grep ttyS*
console [tty0] enabled
0000:00:1e.3: ttyS0 at MMIO 0x9081c000 (irq = 18) is a 16550A
0000:00:1e.4: ttyS1 at MMIO 0x9081a000 (irq = 19) is a 16550A
usb 1-4.2: FTDI USB Serial Device converter now attached to ttyUSB0
usb 1-4.2: FTDI USB Serial Device converter now attached to ttyUSB1
root@WR-IntelligentDevice:~#
```

Step 3: Open minicom

Console setting:

```
Wind River Linux 5.0.1.33 WR-IntelligentDevice console
WR-IntelligentDevice login: root
Password:
Last login: Thu Jul 7 11:32:55 UTC 2016 on tty2
root@WR-IntelligentDevice:~# minicom -s
```

```
A - Serial Device      : /dev/ttyUSB0
B - Lockfile Location  : /var/lock
C - Callin Program     :
D - Callout Program    :
E - Bps/Par/Bits       : 115200 8N1
F - Hardware Flow Control : No
G - Software Flow Control : No
```

Change which setting?

```
Screen and keyboard
Save setup as dfl
Save setup as..
Exit
Exit from Minicom
```

```
[configuration]
Filenames and paths
File transfer protocols
Serial port setup
Modem and dialing
Screen and keyboard
Save setup as dfl
Save setup as..
Exit
Exit from Minicom
```

```
Welcome to minicom 2.6.1

OPTIONS: I18n
Compiled on Mar 24 2016, 18:04:08.
Port /dev/ttyUSB0

Press CTRL-A 2 for help on special keys
```


tty2 setting:

```
Wind River Linux 5.0.1.33 WR-IntelligentDevice tty2
WR-IntelligentDevice login: root
Password:
Last login: Thu Jul 7 11:40:09 UTC 2016 on console
root@WR-IntelligentDevice:~# minicom -s
```

```
A - Serial Device      : /dev/ttyUSB1
B - Lockfile Location  : /var/lock
C - Callin Program     :
D - Callout Program    :
E - Bps/Par/Bits       : 115200 8N1
F - Hardware Flow Control : No
G - Software Flow Control : No
```

Change which setting?

```
Screen and keyboard
Save setup as dfl
Save setup as..
Exit
Exit from Minicom
```

```
[configuration]
Filenames and paths
File transfer protocols
Serial port setup
Modem and dialing
Screen and keyboard
Save setup as dfl
Save setup as..
Exit
Exit from Minicom
```

Welcome to minicom 2.6.1

OPTIONS: I18n

Compiled on Mar 24 2016, 18:04:08.

Port /dev/ttyUSB1

Press CTRL-A Z for help on special keys

Step 4 type any word and check the output at another terminal

Console receive tty2 input

```
Welcome to minicom 2.6.1

OPTIONS: I18n
Compiled on Mar 24 2016, 18:04:08.
Port /dev/ttyUSB0

Press CTRL-A Z for help on special keys

I am tty2_
```

tty2 receive console input

```
Welcome to minicom 2.6.1

OPTIONS: I18n
Compiled on Mar 24 2016, 18:04:08.
Port /dev/ttyUSB1

Press CTRL-A Z for help on special keys

I am console
```