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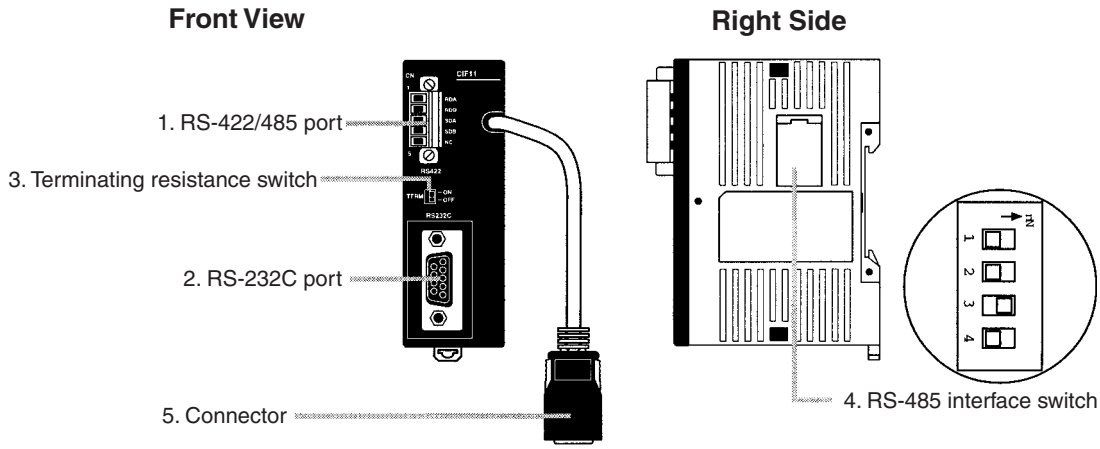
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## 2-2-8 CPM2C-CIF11 RS-422/RS-232C Adapter Unit

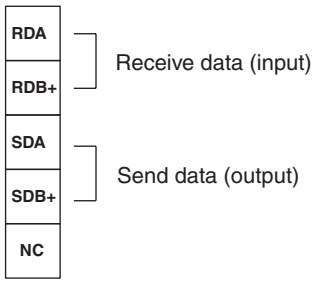



**Note** Do not use the CPM2C-CIF11 with any PC other than the CPM2C.

***1,2,3...*** 1. RS422/485 Port

Used to connect to host computers, or standard external devices.

**Terminal Arrangement**

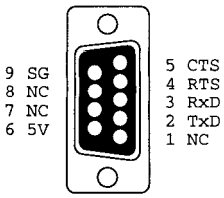



**Note** The maximum line length is 500 m.

2. RS-232C Port

Used to connect to the RS-232C interface of a personal computer or Programmable Terminal (operator interface).

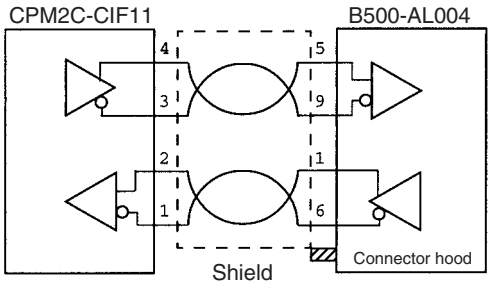
Connector Pin Arrangement



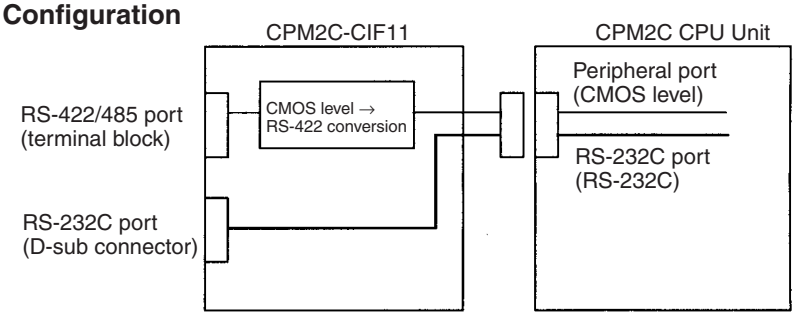



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**RS-422/485 Connection Example**



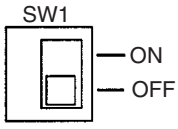

**Internal Configuration**




| | | |
|---|---|---|
| RS-422/485 port on CPM2C-CIF11 | Signal conversion | Converts CMOS level (CPU Unit side) to RS-422 (connected device side).<br>RS-422 (externally connected device) insulated using DC/DC converter or photocoupler. |
| | Function | Host Link, peripheral bus, or no-protocol connections. |
| RS-232C port on CPM2C-CIF11 | Signal conversion | Outputs signals from the CPU Unit's CMOS interface without conversion. |
| | Function | Host Link, no-protocol, 1:1 Link, or 1:1 NT Link connections. |

3. Terminating Resistance Switch

   Set this switch to ON only for double-ended connection to a Host Link network. This switch is factory-set to OFF.



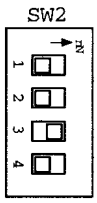

Terminating Resistance
RS-422: 235 Ω (combined resistance must be 110 Ω min)
RS-485: 118 Ω (combined resistance must be 54 Ω min)

4. RS-485 Interface Switch

   Used to switch to the RS-485 interface, and to enable or disable RS/CS control when performing RS-485 communications.



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| SW2 | Factory setting |
|---|---|
| 1 | OFF |
| 2 | OFF |
| 3 | ON |
| 4 | OFF |

| SW2 | Status |
|---|---|
| SW2-1<br>SW2-2 | SW2-1 / SW2-2 |
| SW2-3<br>SW2-4 | SW2-3 / SW2-4 |

**SW2-1 / SW2-2**

| | | SW2-1 OFF | SW2-1 ON |
|---|---|---|---|
| SW2-2 | OFF | 4-wire communications | Setting not possible |
| | ON | Setting not possible | 2-wire communications |

**SW2-3 / SW2-4**

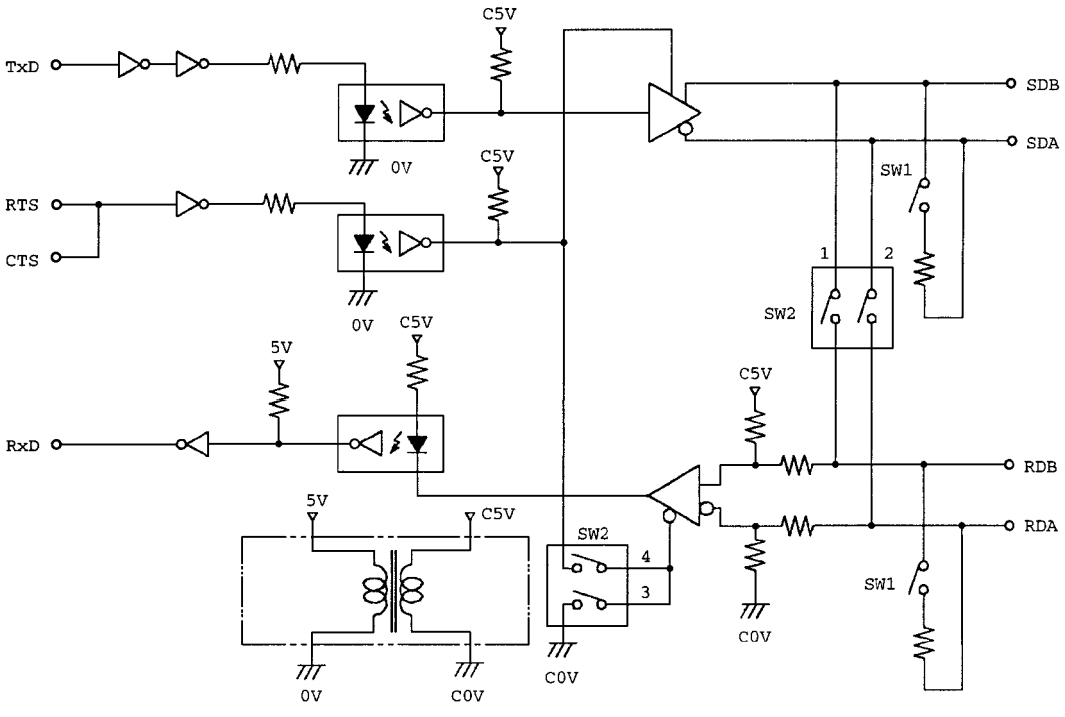
| | | SW2-3 OFF | SW2-3 ON |
|---|---|---|---|
| SW2-4 | OFF | Setting not possible | Data can be received at any time |
| | ON | RS control possible for CPU Unit | Setting not possible |

**Note** Do not set both SW2-3 and SW2-4 to ON. Doing so may result in damage to internal circuitry. Set SW2-3 to OFF and SW2-4 to OFF when performing RS-485 2-wire communications.

5. Connector

   Connects to the communications port on the CPU Unit.

**RS-422 Interface Block Diagram**






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