

JZ-RS4

Add-on Module Installation Guide Jazz™ RS232/RS485 COM Port Kit

- Before using this product, the user must read and understand this document.
- For additional information regarding this product, refer to the [MJ20-RS](#) technical specifications.
- All examples and diagrams are intended to aid understanding, and do not guarantee operation. Unitronics accepts no responsibility for actual use of this product based on these examples.
- Please dispose of this product according to local and national standards and regulations.
- Only qualified service personnel should open this device or carry out repairs.



Failure to comply with appropriate safety guidelines can cause severe injury or property damage.



- Do not attempt to use this device with parameters that exceed permissible levels.
- Do not connect the RJ11 connector to a telephone or telephone line.

Environmental Considerations



- Do not install in areas with: excessive or conductive dust, corrosive or flammable gas, moisture or rain, excessive heat, regular impact shocks or excessive vibration.

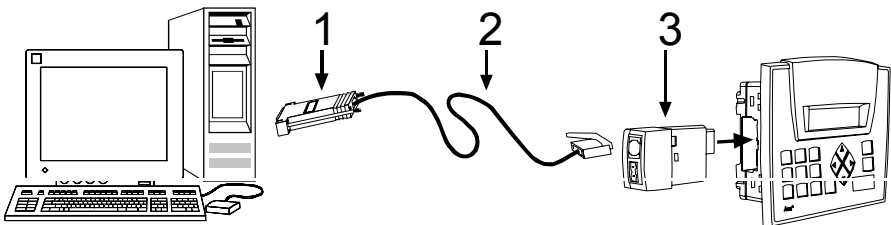


- Do not place in water or let water leak onto the unit.
- Do not allow debris to fall inside the unit during installation.

Kit Contents

The numbered elements in the next figure are described in this section.

- 1 [MJ10-22-CS25](#)
D-type adapter, interface between the PC or other RS232 device's serial port and RS232 communication cable.
- 2 [RS232 communication cable](#)
4-wire programming cable, two meters long. Use this to connect the RS232 serial port on the MJ20-RS to the RS232 port of the other device, via adapter MJ10-22-CS25.
- 3 [MJ20-RS](#)
RS232/RS485 Add-On Module. Insert this into the Jazz Jack to provide a serial communications interface.

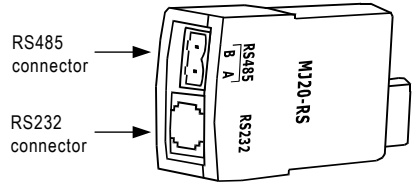


About the MJ20-RS Add-on Module

The MJ20-RS Add-on Module enables Jazz OPLC™ networking and serial communications, including program download. The module comprises:

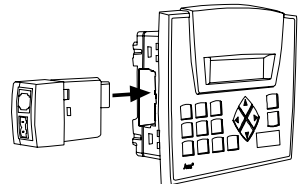
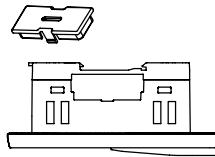
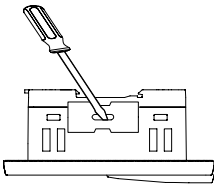
- A single communication channel that serves one RS232 port and one RS485 port. The module cannot communicate via RS232 and RS485 simultaneously.
- Switches that enable you to set the device as an RS485 network termination point

Note that the ports are isolated from the Jazz OPLC.



Installation and Removal

1. Remove the cover from the Jazz jack as shown in the first two figures below.
2. Position the port so that the port's pin receptacles are aligned with the pins in the Jazz jack as shown in the third figure below.
3. Gently slide the port into the jack.
4. To remove the port, slide it out, and then re-cover the Jazz jack.



RS232 Pinout

The pinout below shows the signals between the D-type adapter and RS232 port connector.

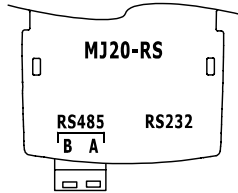
| MJ10-22-CS25 D-type adapter | | | MJ20-RS RS232 Port | | RJ11 MJ20-PRG – cable interface |
|--------------------------------|-------------|---|-----------------------|-------------|------------------------------------|
| Pin # | Description | | Pin # | Description | |
| 6 | DSR | ← | 1 | DTR signal* | |
| 5 | GND | — | 2 | GND | |
| 2 | RXD | ← | 3 | TXD | |
| 3 | TXD | → | 4 | RXD | |
| 5 | GND | — | 5 | GND | |
| 4 | DTR | → | 6 | DSR signal* | |

* Note that standard communication cables do not provide connection points for pins 1 & 6.

RS485 Settings

RS485 connector signals

| | |
|---|-----------------|
| A | Positive signal |
| B | Negative signal |

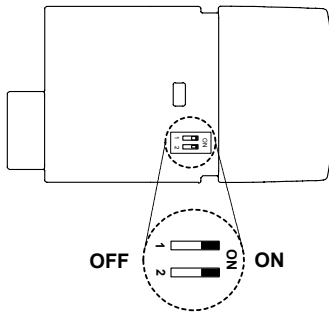


Network Termination

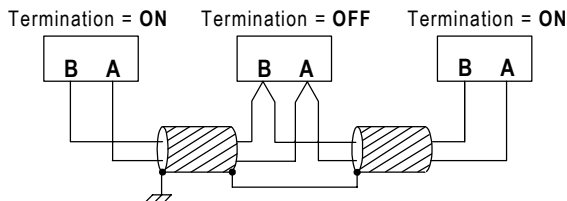
MJ20-RS comprises 2 switches.

| | |
|-----|---|
| ON | Termination ON (Factory default setting) |
| OFF | Termination OFF |

Note that you must move **both** switches in order to set the desired state.



Network Structure



- Do not cross positive (A) and negative (B) signals. Positive terminals must be wired to positive, and negative terminals to negative.
- Minimize the stub (drop) length leading from each device to the bus. The stub should not exceed 5 centimeters. Ideally, the main cable should be run in and out of the networked device.
- Use shielded twisted pair (STP) cables to network device, in compliance with EIA RS485.

Bestellbezeichnung

Nr. 114157
JZ-RS4

Isolierte Schnittstelle, RS-232/485,Jazz