# LAVA POS Serial Port Splitter Quick Installation Guide

# **Product Description**

The LAVA POS Serial Port Splitter is an RS-232 device that sends two serial streams to one serial port. The POS Serial Port Splitter is a passive device that attaches to a controlling machine such as a Point of Sale station (POS), computer, or server and then allows up to two input devices such as RFID scanners, bar code readers, mag stripe units, key pads, or any serial input device to be interconnected. Semiconductor circuits are utilized to provide isolation of the prime signals in the RS-232 interface. LAVA supports TX, RX, and GRD to pass the data between the inputting device and the receiving device. This is a elegant device that solves a common problem in today's IT environment and is simple and quick to install.

**NOTE**:  Please note that device is recommended with true hardware RS-232 ports. The use of virtualized serial ports may cause technical problems.
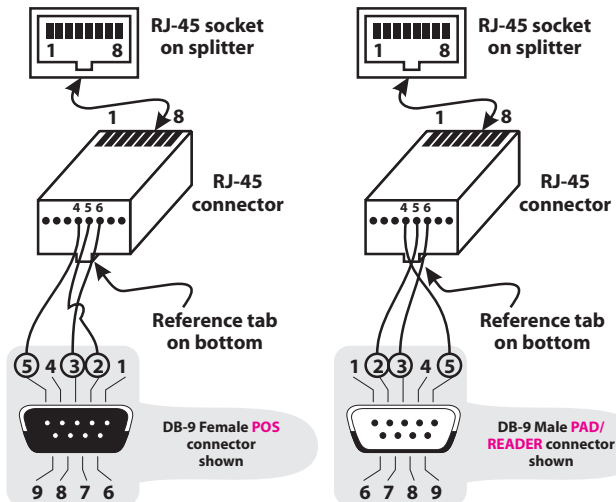
**NOTE**:  If you need additional configuration support that has not been provided, please contact LAVA Sales at: sales@lavalink.com.
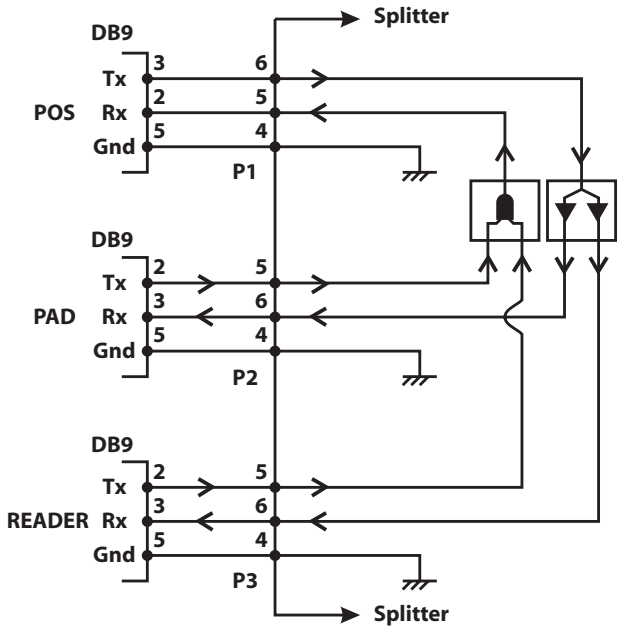
# **Features**

- Dual RS-232 RJ-45 serial input ports supporting up to 115.2 kbps throughput per port
- Serial input ports receive POS data from POS peripherals
- Single RS-232 serial output port supporting up to 115.2 kbps throughput
- Serial output port sends POS data to POS terminal/ECR
- Software-less installation
- Power supply included

# RJ-45 Socket Pinouts

**(typical connector options)**



RJ-45 socket on splitter

1    8

1    8

RJ-45 connector

4 5 6

Reference tab on bottom

5  4  3  2  1

DB-9 Female **POS** connector shown

9  8  7  6

RJ-45 socket on splitter

1    8

1    8

RJ-45 connector

4 5 6

Reference tab on bottom

1  2  3  4  5

DB-9 Male **PAD/READER** connector shown
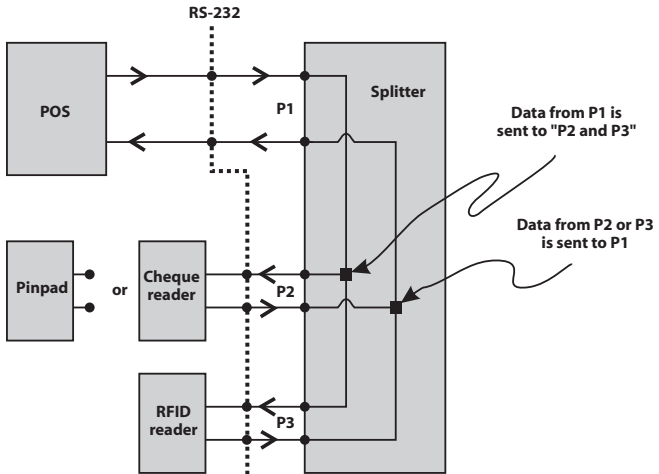
6  7  8  9

# 3-port I/O Pinouts RS-232 I/O Levels

# Functional Schematic of Splitter Data Flow TX/RX



POS expects to see data from some device, at a given time. If the data is not as expected, then the application program in the POS rejects the data.

P1 and P2 are "Party-line/multi-dropped" on the RS-232 COM port of the POS.

# Specifications

| | |
|---|---|
| Interface: | RJ-45 serial |
| Connectors: | RJ-45, female |
| Physical dimensions: | |
|     Length: | 4.0 inches (101.60 mm) |
|     Width: | 3.0 inches (76.20 mm) |
|     Height: | 1.5 inches (38.10 mm) |
| Weight: | 2.6 oz. (75 g) |
| Environment: | 0°C to 70°C |
| MTBF: | 125,000 hours |
| Power requirement: | Configuration dependent (may not always be required) |
| Optional: | Can be supplied with North American (N.A.) supply, 9-29 VDC |
| Signals supported: | RX, TX, GND |
| Operating system: | OS independent |

# LAVA
# Technical Support

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## LAVA Computer MFG Inc.



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