

### Product Overview

The USB MUX 421 is a versatile bi-directional USB 2.0, High-Speed MUX, designed to facilitate seamless switching between four high-speed sources through a single USB connector. This low-power device enables all ports to operate as either a Host or Device, offering flexibility in various USB configurations.

#### ■ Key Features

- **USB 2.0 High-Speed Compatibility:** Supports high-speed USB 2.0 data transmission for efficient connectivity.
- **Low Power Operation:** Designed with energy efficiency to minimize power consumption.
- **Low RON Resistance:** Ensures low ON-state resistance for enhanced signal integrity.
- **Voltage Switching Based on Electromechanical Relays:** Utilizes reliable electromechanical relays for efficient voltage switching.
- **Designed to Meet USB 2.0 High-Speed Standards:** USB 2.0 High-Speed specifications for optimal performance.
- **Designed to Meet USB 2.0 Full-Speed Standards:** USB 2.0 Full-Speed standards for versatile compatibility.

#### ■ Specifications

- **Dimensions:** (H x W x D): 35cm X 40cm X 40cm or 13.78" X 15.75" X 15.75"
- **Voltage:** 5VDC 1 Amp external AC/DC adapter is provided with the product (100-240VAC 1A)

#### ■ Performance

- **Ethernet:** 10/100base T
  - TCP: Static IP
  - Default IP Port: 192.168.10.10:7
- **Ordering Information:**
  - Part Number: BTS78882328A

#### ■ Connections

- **PWR - Power Supply:** VDC Connector Type: 2.5x5.5 mm
- **ETH - Control Port** Connector Type: RJ 45
- **COM - Common USB Input Output** Connector Type: Female USB Type A
- **USB A - Selectable USB Output Input A** Connector Type: Female USB Type A
- **USB B - Selectable USB Output Input B** Connector Type: Female USB Type A
- **USB C - Selectable USB Output Input C** Connector Type: Female USB Type A
- **USB D - Selectable USB Output Input D** Connector Type: Female USB Type A
- **Default USB State:** Disconnected

#### ■ Applications

- USB Switching in Multi-Device Environments
- System Integration with Multiple USB Devices
- Automated Test Equipment
- Signal Routing
- Industrial Control

