

RS-485 Protocol Converters

Data Sheet



USB-485 Communication Interface

The USB-485 Communication Interface is a protocol converter used to connect a PC's USB port to the RS-485 input on your KT controller KT-1/KT-200/KT-300/KT-400. The USB-485 unit is designed to connect to (and be powered by) the USB port of a host computer. It supplies the data at the required RS-485 communications protocol necessary for door controllers. Up to 32 door controllers can be connected together on an RS-485 multi-drop network. Installed between the host and the door controllers, the USB-485 permits a "daisy chain" configuration, which extends the maximum transmission distance to 1,200 meters.

USB-485 Key Features

- Converts USB to RS-485
- Supports up to 32 KT controllers
- Uses unshielded twisted pair (UTP) communication cable
- Supports Windows Server 2008 R2 Standard/Enterprise, Windows Datacenter 2012 (X64), Windows 10 Enterprise, Windows 8.1 Enterprise x86 and x64, Windows 7 Pro Enterprise/Ultimate (32- and 64-bit versions)
- Powered by USB port
- Extends communication up to 1,200 m (4,000 ft)



VC-485 Multi-Function Communication Interface

The VC-485 Communication Interface is an RS-232/RS-485 protocol converter primarily used to connect a PC to a KT-100/ KT-200/ KT-300 controller. The VC-485 is an RS-232 to RS-485 protocol converter that acts as the interface between a host computer's RS-232 port and up to 32 door controllers connected together on an RS-485 multi-drop network.

VC-485 Key Features

- Converts RS-232 to RS-485
- Supports up to 32 KT controllers
- Uses UTP cable
- Powered by 5 VDC or 12 VDC
- Extends communication up to 1,200 m (4,000 ft)
- Extends communication up to 5,486 m (18,000 ft) by connecting two together
- Two VC-485s may be connected back-to-back to extend the RS-485 communication bus