SPECIFICATIONS



ADVANCED SYSTEMS DESIGN & SERVICES

Host, Desktop Unit... Model 4112 (Cat No. 304112) Host, DIN Rail Mounted Unit... Model 4112-DIN (Cat No. 304112-DIN) 4-Port USB Hub, Desktop Unit... Model 4119 (Cat No. 304119) 4-Port USB Hub, DIN Rail Mounted Unit... Model 4119-DIN (Cat No. 304119-DIN) Included USB A-B Cable, 6 ft.... (Cat No. 507366)

High Speed ST Fiber-to-USB Converter/Extender, Host & 4-Port USB Hub

- Simultaneously connect up to four USB Interface Devices to your desktop PC or notebook.
- High speed connection to distant USB devices over multimode fiber optic cable.

INTRODUCTION

The Desktop Units, Models 4112 and 4119, or the DIN Rail Mounted units, Models 4112-DIN and 4119-DIN, comprise, a Host and a Four Port USB Wired Hub that extend USB connections up to 500 meters via a high speed ST Fiber interface.

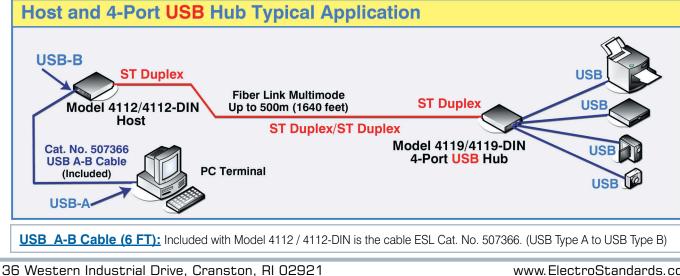
FEATURES:

- Convert USB 2.0 compliant data from a standard PC Host interface, Model 4112, over fiber to a remote 4-port powered USB Hub, Model 4119.
- Ideal for applications involving PC communication that require high speed, secure communication, and optical isolation.
- Extend USB communication in environments that are subject to high EM or RF interference that might corrupt communication over a copper interface.
- Typical applications include industrial control, KVM extension, remote desktop USB connections, and remote USB device sharing such as printers, scanners and storage devices.
- Units offer true plug and play operability with support for Windows®, Mac OS®, Linux®, and support all USB device types: Control, Interrupt, Bulk and Isochronous up to 480 Mbps.
- Designed to operate from -0 degree C to +50 degree C (component ratings meet or exceed 0° C to to 70° C).
- Units feature ESD protection circuitry on all copper ÚSB I/O interfaces, per IEC 61000-4-2 standard.
- Power inputs are protected from overvoltage, overcurrent and high power transients.
- The 4-port USB Hub provides the USB standard of 500mA per port.
- LEDs display Power, Fiber Link Active, Host Active (Model 4112, 4112-DIN) and Port Active (Model 4119, 4119-DIN) indicator LEDs.



Two configurations are available for each model:

- 1. Model 4112 Host Desktop Unit, for applications requiring an enclosure.
- **2. Model 4112-DIN** Host Unit for applications requiring mounting on a DIN rail.
- **3. Model 4119** 4-Port USB Hub Desktop Unit, for applications requiring an enclosure.
- **4. Model 4119-DIN** 4-Port USB Hub Unit for applications requiring mounting on a DIN rail.



www.ElectroStandards.com E-mail:eslab@ElectroStandards.com



ADVANCED SYSTEMS DESIGN & SERVICES

Host, Desktop Unit... Model 4112 (Cat No. 304112) Host, DIN Rail Mounted Unit... Model 4112-DIN (Cat No. 304112-DIN) 4-Port USB Hub, Desktop Unit... Model 4119 (Cat No. 304119) 4-Port USB Hub, DIN Rail Mounted Unit... Model 4119-DIN (Cat No. 304119-DIN) Included USB A-B Cable, 6 ft... (Cat No. 507366)

High Speed Ruggedized ST Fiber-to-USB Converter/Extender, Host & 4-Port USB Hub

SPECIFICATIONS:

USB Interface:

Connectors: Model 4112 - 1x USB Type B, High Retention Model 4119 - 4x USB Type A, (5V @500mA/port)

> Model 4112-DIN - 1x USB Type B, High Retention Model 4119-DIN - 4x USB Type A, (5V @500mA/port)

USB Data Format:

Type: USB 2.0 Compliant (Backwards compatible USB 1.1) Rate: Supports Low Speed (1.5 Mbps), Full Speed (12 Mbps), and High Speed (480 Mbps) USB Data transfer rates.

Fiber Interface:

Connectors: Fiber Optic ST

TX Power: -6.5 dBm (Typical) RX Sensitivity: -21.5 dB (Typical) Optical Budget: 14.5 dB Max. Link Distance with 50/125 μ m fiber: 500 Meters. Max. Link Distance with 62.5/125 μ m fiber: 275 Meters. Wavelength: 850 nm, multimode

LED Indicators:

Model 4112 - Power, Fiber Link Active, Host Active Model 4119 - Power, Fiber Link Active, Port Active

Model 4112-DIN - Power, Fiber Link Active, Host Active Model 4119-DIN - Power, Fiber Link Active, Port Active

Input Power: Requirement

Model 4112 - 5VDC @ 2.5W (Model 4112) Model 4119 - 5VDC @ 15W (Model 4119)

Model 4112-DIN - 5VDC @ 2.5W Model 4119-DIN - 5VDC @ 15W

Power Connector:

On all models, the input power connector is a DC power jack (Circular Barrel Type).

External Power Supply:

The power supply is not included with any of the units and can be ordered separately, ESL Cat. No. 524450.

SPECIFICATIONS

Operating Environment:

Tested operation, 0°C to +50°C. Component ratings meet or exceed 0°C to 70°C.

Model 4112 Mechanical (Desktop Unit):

Model 4112, Cat No 304112 Size: 4.27" W x 1.35" H x 9.44" D (10.9 x 3.5 x 24.0 cm) Weight: Approx. 1.2 lbs (528g) Mounting: Desktop Standard, DIN rail (Optional)

Model 4119 Mechanical (Desktop Unit):

Model 4119, Cat No 304119 Size: 4.27" W x 1.35" H x 9.44" D (10.9 x 3.5 x 24.0 cm) Weight: Approx. 1.2 lbs (528g) Mounting: Desktop Standard, DIN rail (Optional)

Model 4112-DIN Mechanical (DIN Rail Mounted Unit):

Model 4112-DIN, Cat No 304112-DIN Size: 4.27" W x 1.35" H x 9.44" D (10.9 x 3.5 x 24.0 cm) Weight: Approx. 1.2 lbs (528g) Mounting: 2 Threaded Holes Standard, DIN rail DIN Rail Bracket Size: 2.84" x 1.24" x 0.16" DIN Rail Bracket Weight: 0.9 oz (25.5g)

Model 4119-DIN Mechanical (DIN Rail Mounted Unit):

Model 4119-DIN, Cat No 304119-DIN Size: 4.27" W x 1.35" H x 9.44" D (10.9 x 3.5 x 24.0 cm) Weight: Approx. 1.2 lbs (528g) Mounting: 2 Threaded Holes Standard, DIN rail DIN Rail Bracket Size: 2.84" x 1.24" x 0.16" DIN Rail Bracket Weight: 0.9 oz (25.5g)