

# USB EXTENDER

**Extend one USB device up to 45.7 meters / Extend four USB devices up to 30.5 meters**



**Extends one USB device up to 45.7 meters.**

**USB-C5-LC (Local and Remote Unit)**

**Extends four USB devices up to 30.5 meters.**

**USB-C5-CE (Remote Unit, Front and Back)**



## Features & Applications

The USB-C5-LC extends one USB device up to 45.7 meters, and the USB-C5(-CE) extends four USB devices up to 30.5 meters. The USB extenders consist of two units, the local unit and the remote unit, which are interconnected with CAT5/5e/6 cable.

- Extend self-powered and/or bus-powered USB peripheral devices (security cameras, printer, scanner, keyboard, etc.).
- Transparent data extension.
- Compatible with USB PC, SUN and MAC computers.
- Compliant with USB 1.1 specifications.
- Supports Plug-n-Play specification.

## Specifications

### Local Unit

- USB-C5-LC: one male USB Type A connector on attached 10-inch cable.
- USB-C5(-CE): one female USB Type B connector.
- Supports a USB computer (PC, SUN, MAC).
  - When using certain MAC computers with USB-CS(-CE), the maximum extension is 22.9 meters.
- Multiplatform support: Windows 2000/XP/Vista/Server 2000/2003/2008, Solaris, Linux, FreeBSD and MAC OS 9/10.

### Remote Unit

- USB-C5-LC: one female USB Type A connector.
- USB-C5(-CE): four female USB Type A connectors.
- Supports low-speed and full-speed USB devices.
- USB 1.1 compliant.
- Supports self-powered and/or bus-powered USB devices.

### Environmental

- Operating temperature: 32°F to 100°F (0°C to 38°C).
- Storage temperature: -20°F to 140°F (-30°C to 60°C).
- Operating and Storage Relative Humidity: 17 to 90% non-condensing RH.

### Power

- USB-C5-LC:
  - Local unit: powered from attached computer.
  - Remote unit: powered from local unit.
    - ♦ USB port supports up to 400mA current.
- USB-C5(-CE):
  - Local unit: powered by CAT5 cable from remote unit.
  - Remote unit: 110 or 220 VAC at 50 or 60 Hz via AC adapter.
    - ♦ The combined current consumption of the connected devices cannot exceed 1.5A.

### Regulatory Approval

- USB-C5-LC: CE, RoHS
- USB-C5: RoHS
- USB-C5-CE: CE, RoHS

## Cables

### Interface Cables

- One-meter male USB Type A to male USB Type B interface cable included with USB-C5(-CE).
- Existing device cables with male Type A connector required.

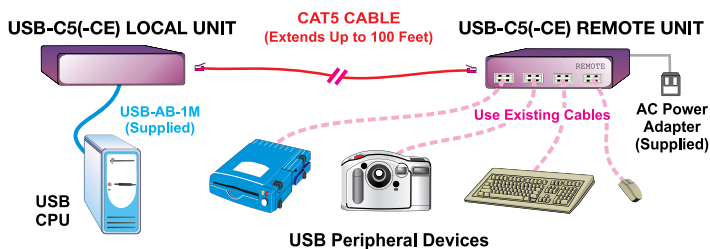
### Extension Cable

- Use CAT5, CAT5e or CAT6 UTP straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors (not included).

### Extension Limits

- USB-C5-LC: extend CAT5/5e/6 up to 45.7 meters.
- USB-C5(-CE): extend CAT5/5e/6 up to 30.5 meters.
  - When using certain MAC computers with USB-CS(-CE), the maximum extension is 22.9 meters.
- Use of CAT6 cable may decrease maximum length of extension.

## Configuration and Cable Illustrations



### Warning!

- The USB-C5(-CE) and USB-C5-LC are not designed to be connected to an Ethernet card, Ethernet router, hub or switch or other Ethernet RJ45 connector of an Ethernet device. Damage to devices connected to the Ethernet may result.

## USB Extender Models

NTI Part #	# of Devices	Local and Remote Unit Sizes WxDxH (mm)
USB-C5-LC	1	30.5x55.9x20.3
USB-C5	4	132.1X109.2X40.6
USB-C5-CE	4	124.5x104.2x27.9