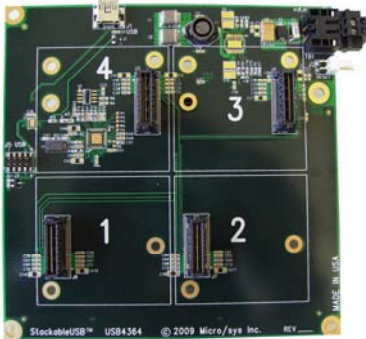




Nano-ITX Carrier for StackableUSB™ USB4364/USB4374



The Nano-ITX carrier board expands custom configuration options for Nano-ITX users designing embedded systems. OEMs can add industrial control features, intelligent sensing, communication options, and mass storage capacity to their Nano-ITX board easily and cost-effectively via StackableUSB.

Two (2) versions of the carrier board are available. The USB4374 interfaces four (4) root ports directly to four (4) StackableUSB bays. On this carrier, each Client device is working directly from a root USB port giving maximum throughput and performance. The USB4364 interfaces a single root USB port to four (4) StackableUSB bays via a hub. In this case, each bay is sharing a single root port.

The carrier board attaches to a Nano-ITX Host processor using the Nano-ITX mounting

Features

- ✓ Accommodates up to four (4) StackableUSB boards
- ✓ Top- or bottom-mount to Nano-ITX processor board
- ✓ USB root or hub versions
- ✓ No special software
- ✓ -40° to +85°C operation



holes and connects electrically either through the popular StackableUSB interface, standard USB cables, or a 10 pin header.

Users can mix-and-match StackableUSB Clients on the USB4364/USB4374: four (4) ¼-size 104™ Form Factor StackableUSB boards, two (2) ½-size 104 Form Factor StackableUSB boards, two (2) ¼-size 104 Form Factor boards and one (1) ½-size 104 Form Factor board, or one (1) full-size 104 Form Factor StackableUSB board.

In addition to providing USB interfaces, each bay on the USB4364/USB4374 accepts StackableUSB I2C and SPI modules via a 10 pin header from the processor board. The USB4364 is an important addition to any Nano-ITX form factor system that requires the USB, I2C and SPI I/O expansion.

Software/Driver Support

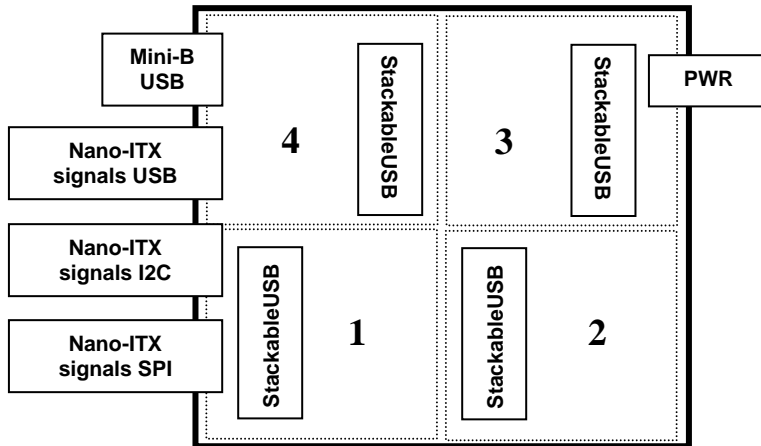


Compatible Hardware

*Nano-ITX CPU motherboard
PC Host desktops and laptops
StackableUSB Client boards*

Mounting/Packaging

*Nano-ITX, full-size 104 Form Factor,
½-size 104 Form Factor, and ¼-
size 104 Form Factor
Standoffs, STD0FFUSB*



Specifications:

Mechanical:

- Nano-ITX mounting holes
- Full-size 104™ Form Factor mounting holes
- ¼-size 104 Form Factor mounting holes
- ½-size 104 Form Factor mounting holes
- 4.7" (plus I/O region) x 4.7" x .6"

Power Requirements:

- +5v ±5% supplied by power header
- 200 mA (min)

(Current requirements dependent on USB devices plugged into USB4364/USB4374)

Environmental:

- 40° to +85°C operating
- 40° to +85°C storage
- 5%-95% relative humidity, non-condensing

Interface:

- USB
- I2C
- SPI

Connections*:

- Three (3) headers for Nano-ITX signals
- Four (4) ¼-size 104 Form Factor StackableUSB
- Two (2) ½-size 104 Form Factor StackableUSB
- Two (2) ¼-size 104 Form Factor and one (1) ½-size 104 Form Factor StackableUSB
- One (1) full-size 104 Form Factor StackableUSB

**Based on configuration*

Development Kit:

- Base module
- Complete cable set
- Documentation, schematics

Ordering Information:

OEM Hub Carrier Module:

USB4364-PC	Hub Carrier Board for four (4) top mounting ¼-size 104 Form Factor boards for Nano-ITX Host or PC Host with Mini-B USB header
4364OPT1T	One (1) top-mounting full-size 104 Form Factor board
4364OPT1B	One (1) bottom-mounting full-size 104 Form Factor board
4364OPT2T	Two (2) top-mounting ½-size 104 Form Factor boards
4364OPT2B	Two (2) bottom-mounting ½-size 104 Form Factor boards
4364OPT3T	Two (2) top-mounting ¼-size 104 Form Factor boards and one (1) top-mounting ½-size 104 Form Factor board
4364OPT3B	Two (2) bottom-mounting ¼-size 104 Form Factor boards and one (1) bottom-mounting ½-size 104 Form Factor board
4364OPT4B	Four (4) bottom-mounting ¼-size 104 Form Factor boards
CS4364	Complete Cable Set

OEM Carrier Module:

USB4374-PC	Carrier Board for four (4) top mounting ¼-size 104 Form Factor boards for Nano-ITX Host or PC Host with Mini-B USB header
4374OPT1T	One (1) top-mounting full-size 104 Form Factor board
4374OPT1B	One (1) bottom-mounting full-size 104 Form Factor board
4374OPT2T	Two (2) top-mounting ½-size 104 Form Factor boards
4374OPT2B	Two (2) bottom-mounting ½-size 104 Form Factor boards

4374OPT3T	Two (2) top-mounting ¼-size 104 Form Factor boards and one (1) top-mounting ½-size 104 Form Factor board
4374OPT3B	Two (2) bottom-mounting ¼-size 104 Form Factor boards and one (1) bottom-mounting ½-size 104 Form Factor board
4374OPT4B	Four (4) bottom-mounting ¼-size 104 Form Factor boards
CS4374	Complete Cable Set

Related Products:

STDOFFUSB	StackableUSB Standoff Kit
CA4136	A to Mini-B USB Cable

Development Board Kits*

DK4364-PC	Hub Carrier Board for four (4) top-mounting ¼-size 104 Form Factor boards for Nano-ITX Host or PC Host with Mini-B USB header
DK4374-PC	Carrier Board for four (4) top-mounting ¼-size 104 Form Factor boards for Nano-ITX Host or PC Host with Mini-B USB header

**See Development Kit Specifications*

The above model is for U.S. operation.

Contact the factory for international models.