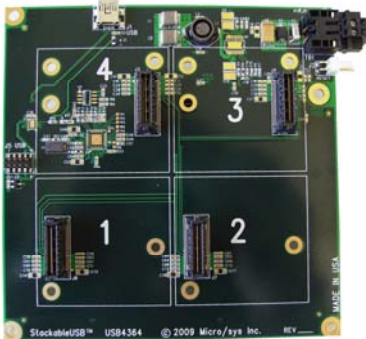




StackableUSB™ I/O Device Carrier for Nano-ITX Form Factor CRR-NANO/HUB-NANO



Features

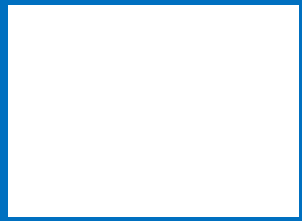
- ✓ Accommodates up to four (4) StackableUSB boards
- ✓ Top- or bottom-mount to Nano-ITX processor board
- ✓ USB root or hub versions
- ✓ No special software
- ✓ -40° to +85°C operation



The CRR-NANO and the HUB-NANO provide a bridge from off-the-shelf Nano-ITX single board computers to the increasingly popular ¼-size StackableUSB I/O devices. Removing the burden of assessing compatibility from the OEM, the CRR-NANO and HUB-NANO securely mount top or bottom to any Nano-ITX form factor to provide access to multiple StackableUSB I/O modules. OEMs simply plug on their Nano-

ITX single board computer via the StackableUSB connector or cable to the CRR-NANO/HUB-NANO via USB 2.0. With access to the well-defined embedded standard for USB, I2C, and SPI, OEMs can add a wealth of intelligent peripheral functions from wireless to GPS to additional storage and more. Plus with the option to add a Hub, OEMs increase their USB capability by splitting one USB root port into 4 USB channels.

Software/Driver Support

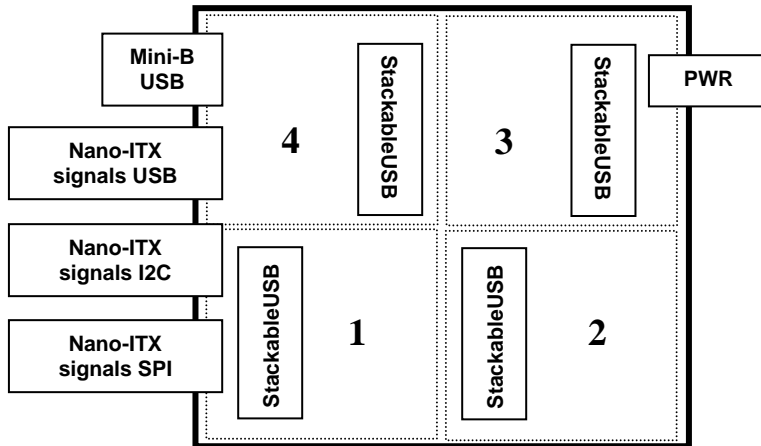


Compatible Hardware

*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 HUB-NANO/CRR-NANO)

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:

HUB-NANO-ST	Hub Carrier Board for four (4) top mounting ¼-size 104 Form Factor boards for StackableUSB Nano-ITX Host
HUB-NANO-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
NANOOPT1T	One (1) top-mounting full-size 104 Form Factor board
NANOOPT1B	One (1) bottom-mounting full-size 104 Form Factor board
NANOOPT2T	Two (2) top-mounting ½-size 104 Form Factor boards
NANOOPT2B	Two (2) bottom-mounting ½-size 104 Form Factor boards
NANOOPT3T	Two (2) top-mounting ¼-size 104 Form Factor boards and one (1) top-mounting ½-size 104 Form Factor board
NANOOPT3B	Two (2) bottom-mounting ¼-size 104 Form Factor boards and one (1) bottom-mounting ½-size 104 Form Factor board
NANOOPT4B	Four (4) bottom-mounting ¼-size 104 Form Factor boards
CS-HUB-NANO	Complete Cable Set

OEM Carrier Module:

CRR-NANO-ST	Carrier Board for four (4) top mounting ¼-size 104 Form Factor boards for StackableUSB Nano-ITX Host
CRR-NANO-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

NANOOPT1T	One (1) top-mounting full-size 104 Form Factor board
NANOOPT1B	One (1) bottom-mounting full-size 104 Form Factor board
NANOOPT2T	Two (2) top-mounting ½-size 104 Form Factor boards
NANOOPT2B	Two (2) bottom-mounting ½-size 104 Form Factor boards
NANOOPT3T	Two (2) top-mounting ¼-size 104 Form Factor boards and one (1) top-mounting ½-size 104 Form Factor board
NANOOPT3B	Two (2) bottom-mounting ¼-size 104 Form Factor boards and one (1) bottom-mounting ½-size 104 Form Factor board
NANOOPT4B	Four (4) bottom-mounting ¼-size 104 Form Factor boards
CS-CRR-NANO	Complete Cable Set

Related Products:

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

Development Board Kits*

DK-HUB-NANO-ST	Hub Carrier Board for four (4) top-mounting ¼-size 104 Form Factor boards for StackableUSB Nano-ITX Host
DK-HUB-NANO-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
DK-CRR-NANO-ST	Carrier Board for four (4) top-mounting ¼-size 104 Form Factor boards for StackableUSB Nano-ITX Host
DK-CRR-NANO-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.