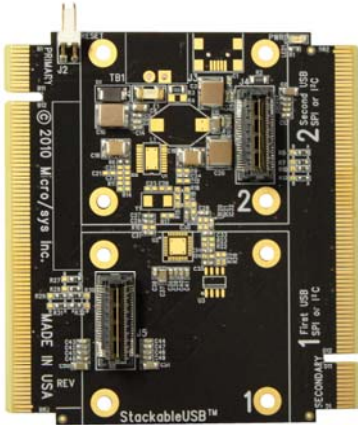# StackableUSB™ I/O Device Carrier for the Tower System CRR-TOWER/HUB-TOWER

Features

- ✓ Accommodates up to four (4) StackableUSB boards

- ✓ Maximize system access to USB, SPI, and I^2C ports

- ✓ USB root or hub versions

- ✓ No special software needed

StackableUSB

RoHS COMPLIANT 2002/95/EC

The CRR-TOWER and the HUB-TOWER provide design engineers additional expansion for the Freescale Tower System. With easy access to the rugged StackableUSB connector, users can effortlessly evaluate plug-and-play ¼-size (1.85" x 1.74") StackableUSB I/O devices. From wireless to GPS to serial conversion, OEMs are able to cost-effectively explore a wealth of peripheral functions for their embedded system.

By offering OEMs the flexibility to build on the number of USB, SPI, and I^2C ports, the CRR-TOWER and the HUB-TOWER open the door for R&D engineers to evaluate a potential design in its entirety rather than one board/chip at a time.

For garnering more I/O flexibility and capacity on a variety of form factors, Nano-ITX, Pico-ITX, 104 Form Factor™, SUMIT-ISM, and COM Express versions are available as well (see ordering information).
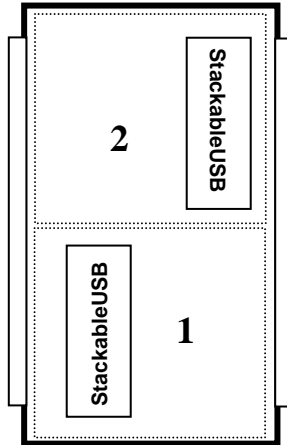
Software/Driver Support	Compatible Hardware	Mounting/Packaging
Utilizes standard USB drivers	*Tower System CPU motherboard PC Host desktops and laptops StackableUSB Client boards*	*Tower System and ¼-size 104 Form Factor Standoffs, STDOFFUSB*

StackableUSB

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StackableUSB

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Specifications:

Mechanical:
- ❑ Freescale Tower form factor
- ❑ 3.543" x 3.197"
- ❑ ¼-size 104 Form Factor mounting holes

Power Requirements:
- ❑ +5v ±5% supplied by power header
- ❑ 200 mA (min)

(Current requirements dependent on USB devices plugged into HUB-TWR)

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

Interface:
- ❑ StackableUSB
- ❑ I^2C
- ❑ SPI

Connections:
- ❑ Tower card-edge connectors for USB, I^2C, and SPI
- ❑ Two (2) ¼-size 104 Form Factor StackableUSB

Ordering Information:

CRR-TOWER	Carrier Board for two–four top-mounting ¼-size 104 Form Factor boards for the Tower System
HUB-TOWER	Hub Carrier Board for two–four top-mounting ¼-size 104 Form Factor boards for the Tower System

Related Tower System Offerings:

TWR1650-Linux*	i.MX515 ARM Cortex-A8 Computer Module for the Tower System, Linux-ready
TWR1650-WinCE*	i.MX515 ARM Cortex-A8 Computer Module for the Tower System, WinCE-ready

Related OEM Offerings:

CRR-PICO/ HUB-PICO	StackableUSB I/O Device Hub Carrier for Pico-ITX Form Factor
CRR-NANO/ HUB-NANO	StackableUSB I/O Device Carrier for Nano-ITX Form Factor
CRR-104/ HUB-104	StackableUSB I/O Device Carrier for 104 Form Factor
CRR-SUMIT/ HUB-SUMIT	StackableUSB I/O Device Carrier for SUMIT-ISM
CRR-COM/ HUB-COM	StackableUSB I/O Device Carrier for COM Express

StackableUSB trademark Micro/sys, Inc.