

## mini-COM Carrier

### SMALLEST FULL FEATURED COM Express CARRIER AVAILABLE ON THE MARKET

#### Product Description

The **mini-COM Carrier** has a small form factor (**95 x 125 mm**) that is the same size as the Type 2 basic size COM Express module itself. **It can easily be used for development and implemented as-is in your end product** without having to design a full custom carrier, by adding SATA +USB expansion, mini-PCI Type III, Express/34, PCI Express mini, PCI/104-Express, and prototyping add-on adapters with standard available I/O cards.

The **mini-COM Carrier** combined with available COM Express Modules and mini-I/O cards provides a means to quickly implement an embedded computer design with:

- Small form factor carrier that is the same size as a COM Express Computer-On-Module
- Expandable by adding adapters and standard I/O cards
- Modular embedded computer solution without a backplane
- Vendor BIOS transparent - Any vendors standard Com Express, ETXexpress®, or microETXexpress can be adapted.
- No need to design a full custom carrier for most applications
- Can be easily modified with custom add-on cards for applications that require custom circuitry to be added
- **Custom design and modification service available**



**Mini-COM carrier Kit shown**

#### Ordering

PCI\_100.200

mini-COM Carrier

#### Options

PCI\_100.201

mini-COM Development Cable kit (1 included with PCI\_100.200)

PCI\_100.202

mini-COM Type 2 Riser (1 included with PCI\_100.200)

PCI\_100.203

mini-COM Type 1 Riser

PCI\_100.205

mini-COM SATA + USB Expansion Adapter

PCI\_100.208

mini-COM SBM2C Adapter

PCI\_100.210

mini-COM Dualmini-PCI Type III card adapter

PCI\_100.220

mini-COM Dual Express/34 card adapter

PCI\_100.225

mini-COM Dual PCI Express mini card adapter

PCI\_100.230

mini-COM PCI/104-Express card adapter

PCI\_100.240

mini-COM Prototype card adapter



**PCI Embedded**

**Computer Systems**

PCI Embedded Computer Systems, Inc.  
505-1 S. State Hwy 49, #102  
Jackson, CA 95642  
(209) 295-5088  
[www.pciembedded.com](http://www.pciembedded.com)

## Technical DATA

micro and mini-COM carriers are electrically identical. The mini-COM is 95x125mm, while the micro-COM is 95 x 95mm.

### Carrier

#### • I/O Interface - top

- 2x USB 2.0
- 1x VGA Mini-connector
- 1x SATA
- 1x Gigabit Ethernet
- 1x LCD LVDS
- 1x LCD Power Mini-connector
- 1x FAN
- 1x Battery
- 1x Reset Button and Mini-connector
- 1x +12V Power Input

#### • I/O Interface - bottom

- COM Express standard AB and CD connectors available to add expansion adapters
- Compact Flash Socket

#### • Embedded BIOS Features

- Vendor BIOS independent

#### • Operating Systems

- See COM Express module vendor for information

#### • Power Consumption

- 12 VDC @ 6 A recommended
- 5V @ 3A & 3.3V @ 1.5A DC are generated on Board.
- Carrier board consumes approximately 0.5W

#### • Temperature

- Operating 0 to +60°C
- Storage -20 to +80°C

#### • Humidity

- Operating 10 to 90% r.H. non-cond.
- Storage 5 to 95% r.H. non-cond.

#### • Size

- Dimensions:
  - Width x Length:
    - micro - 95 x 95 mm
    - mini - 95 x 125 mm
  - Height: 38mm high with a standard COM Express module and a heat spreader
  - Add 19.2 mm for each adapter type added

#### • Cooling

- Standard COM Express Heat Spreaders or Heat sinks available

#### SATA HD + USB Expansion Adapter

- 1x 2.5" SATA HD socket with mounting holes
- 2x SATA expansion ports
- 2x USB 2.0 connectors

#### mini-PCI Type III Adapter

- 2x mini-PCI Type III slots
- Fits up to type IIIB length (50.95 mm) boards
- Up to 2 adapters can be mounted to carrier

#### Prototype Adapter

- Used to install prototype circuits.
- Includes access to all Com Express signals including 3.3V and 5V.
- Multiple adapters can be mounted to carrier. Contact factory for application specific details.

#### Smart Battery Module Expansion Adapter

- 1x Congatec SBM2C Smart Battery Module
- 2x Smart Battery ports
- 1x 19VDC input power port
- 1x 5V / 12V Auxillary Power output port

#### Dual Express/34 Adapter

- 2x Express/34 slots
- Only 1 adapter can be mounted to carrier (Not available if Dual PCI Express mini adapter is used)

#### Dual PCI Express Mini Adapter

- 2x PCI Express mini slots
- Only 1 adapter can be mounted to carrier (Not available if Dual Express/34 adapter is used)

#### PCI/104-Express Adapter

- 1x PCI/104-Express Slot (Also adapts PC/104plus cards)
- Only 1 adapter can be mounted to carrier