

micro-COM Carrier

SMALLEST COM Express CARRIER AVAILABLE ON THE MARKET

Product Description

The **micro-COM Carrier** has the smallest form factor (**95 x95 mm**) of any high performance modular COM Express CPU system on the market. This small form factor COM Express carrier is the same size as a compact size Type 2 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 available SATA +USB expansion, mini-PCI Type III, and prototyping add-on adapters with standard available I/O cards.

The **micro-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 available adapters and standard I/O cards
- Modular embedded computer solution without a backplane
- Vendor BIOS transparent - Any vendors standard compact COM Express or microETXexpressmodule 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 also available



Micro-COM Carrier

Ordering

PCI_100.300

micro-COM Carrier

Options

PCI_100.201

mini-COM Development Cable kit (1 included with PCI_100.300)

PCI_100.202

mini-COM Type 2 Riser (1 included with PCI_100.300)

PCI_100.203

mini-COM Type 1 Riser

PCI_100.305

micro-COM SATA + USB Expansion Adapter

PCI_100.310

micro-COM mini-PCI Type III card adapter

PCI_100.340

micro-COM Prototype card adapter



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Technical DATA

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: 95 x 95 mm
 - Height: 38 mm 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 1.8" SATA HD socket
- 2x USB 2.0 connectors

mini-PCI Type III Adapter

- 1x mini-PCI Type III slots
- Fits up to type IIIB length (50.95 mm) boards
- Up to 4 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.