COM Express Carrier Board, Type 6

Part: 12000 | **Model:** Type 6 Carrier Board

Get your COM Express project off to a fast start with Sealevel's COM Express carrier board. The 12000 supports Basic and Compact Type 6 COM Express modules. Standard features include five USB 2.0, two RS-232, one RS-485, dual Gigabit Ethernet, SATA, DisplayPort, and audio interfaces. Specific features are COM Express module dependent.

Sealevel's 12000 simplifies software development and prototyping while the target application carrier board is designed. Take advantage of Sealevel's carrier board development services for the fastest time to market. Our extensive library of proven I/O circuits including serial, analog, and digital functionality simplifies the design process and can be easily optimized to meet the specific I/O count, voltage ranges and connector types required for your application.

Turn to Sealevel's custom capabilities for expertise in electrical, mechanical, software, environmental stress screening, project management, and compliance & certification. Call us today to discuss the design capabilities, reliability improvements and design control advantages that a Sealevel COM Express carrier board or system design will bring to your next product.

Features & Specifications
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Features

- COM Express Type 6 reference carrier board
- Supports Basic and Compact Type 6 COM Express modules that are compliant with PICMG COM Express Revision 2.0
- Two 220-pin COM Express Type 6 connectors
- PCI Express Half-Size Mini Card slot supports optional wireless interface and other expansion modules
- Two Gigabit (10/100/1000BaseT) Ethernet RJ45 ports
- Four high-retention Type A USB 2.0 ports; one 5-pin USB 2.0 header
- Two DB9M RS-232 serial ports; one 10-pin header for RS-485 serial interface
- Mode select jumper for RS-485 auto-enable/Echo
- One DisplayPort interface
- One SATA connector (module dependent)
- Onboard diagnostic LEDs for board power and SATA activity
- Integrated IDT high definition audio codec
- Two 3.5mm connectors for audio line-in and line-out
- Wide-temperature 2032 button cell for module RTC backup
- Separate COM Express module and system reset buttons
- Header for power switch
- 18-36VDC input power range (fused at 30A) with Molex (39-01-2040) mating connector
- Includes carrier board, 2.5" drive bracket, and four 1.5" standoffs

Specifications

Dimensions	8.00" (L) x 4.35" (W)
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Power Requirement	18-36VDC Input Range (Fused at 30A)
Storage Temperature	-40°C to 105°C (-40°F to 221°F)