COM Express Type 6 Carrier Board

Part: TEVAL2 | **Model:** Type 6 Carrier Board

Get your COM Express project off to a fast start with the TEVAL2 COM Express carrier board. The TEVAL2 supports Basic and Compact Type 6 COM Express modules. Standard features include six PCI Express X1 slots, one PCI Express X4 slot, one PCI Express (PEG) X16 slot, one Mini PCI Express slot, one Express Card socket, and one SD Card socket. The carrier board includes connectors for digital and analog video, USB, Ethernet, SATA, GPIO/SDIO, serial and audio interfaces. Specific features are COM Express module dependent.

The TEVAL2 carrier board 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, which 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, 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
- Includes six PCI Express X1 slots, one X4 slot, and one X16 (PEG) slot
- Includes one Mini PCI Express Half/Full-size slot
- Includes one Express Card socket
- Includes one SD Card socket
- Includes one M.2 Key B connector (Supports 3042, 2260, 2280)
- Three Dual-Mode DisplayPort connectors (eDP, LVDS, VGA)
- One Digital Display Interfaces (DDI/SDVO) slot supporting DisplayPort, HDMI, and DVI displays
- Integrated high definition audio codec
- Integrated GPIO/SDIO interface
- Onboard diagnostic LEDs for BIOS POST code data
- Two 220-pin COM Express Type 6 connectors
- One DB15 for analog VGA display
- One 34-pin header for LVDS
- One 10-pin header for LCD backlight
- Four SATA connectors (SATADOM support, module dependent)
- One Gigabit (10/100/1000BaseT) Ethernet RJ45 port, SDP header
- Four USB 3.1 Type A, two USB 2.0 Type A, and one USB client Type B ports
- Two 10-pin headers for serial interfaces (RS-232/422/485, RS-232, CAN Bus)
- Two 3.5mm connectors for microphone/audio line-in and line-out, one optical S/PDIF output, and External Codec header
- One 10-pin header for Smart Battery management communications
- Debug POST Display, Beeper, BIOS SPI Socket
- Additional connectors for 12V DC power input (4mm banana sockets), hard drive power, and power/reset/sleep buttons
- Carrier board works with standard ATX (24-pin) power supplies

Specifications

BIOS	Diagnostic LEDs for BIOS POST data
Dimensions	11.6" (L) x 9.6" (W)
Humidity Range	10 – 90% Relative Humidity, Non-Condensing
Operating Temperature	0°C to 60°C (32°F to 140°F)
Power Requirement	Standard ATX Power Supply
Storage Temperature	-20°C to 80°C (-4°F to 176°F)