The XPand1030 system is a low-cost debug, development, and display platform for 3U conduction-cooled cards. It supports one X-ES CompactPCI SBC and the Cisco® 5940 with direct Ethernet and serial I/O access to each board.

The XPand1030 backplane provides CompactPCI bus between the two slots. Ethernet, RS-232 serial I/O, and DVI are routed to RJ-45, micro-DB-9, and HDMI connectors for easy access.

The XPand1030 is the ideal solution for rapid prototyping mobile ad hoc networks (MANET) based on the Cisco® 5940 ESR. The 5940 3U cPCI hardware is complemented by Cisco IOS® Software and Cisco® Mobile Ready Net capabilities. With support for Dynamic Link Exchange Protocol (DLEP), the latest protocol in the Radio Aware Routing (RAR) family of protocols that enable communication between a router and a radio in a mobile ad hoc network, the 5940 provides highly secure yet scalable video, voice, and data services for mobile and embedded outdoor networks.
Connectors
- One 3U cPCI SBC slot
- One Cisco® 5940 slot
- ATX power supply connector
- Four RJ-45 Ethernet connectors
- One USB Type A connector
- One eSATA connector
- One HDMI connector
- Two micro-DB-9 connectors

Utility Functions
- Front panel reset switch
- Back panel power switch
- Back panel power rail LED indicators

Cisco® 5940 Module
- Ruggedized 3U CompactPCI Embedded Router
- Cisco IOS® Software

I/O Routing
- J1 (SBC slot) Ethernet Port 0 routed to J2 (Cisco® 5940 slot) Ethernet Port 0
- J1 (SBC slot) Ethernet Port 1 routed to RJ-45 connector
- J2 (Cisco 5940 slot) Ethernet Ports 1 through 3 routed to RJ-45 connectors
- J1 and J2 serial ports routed to micro-DB-9 connectors

External Power Supply
- ATX power supply

Maximum Power Capacity
- 100 W total

*Connection between slots made via bottom-side cat5 jumper cable which can be removed for custom configurations, allowing direct access to SBC GbE0 and Cisco 5940 GbE0 ports