

# JetCard 5400-w

## Linux-Ready Intel IXP435 400MHz 3.5" SBC with PCI-104 slot



- Intel IXP435 400MHz with Networking Processor
- 5 Ethernet ports: 1 WAN, 4 LAN
- 1 USB, 1 console port, 1 reset button
- 12~48V DC input
- Embedded Linux ready
- Router/ Ethernet switch function support
- Linux SDK provided
- -40~80°C operating temperature for hazardous environment application

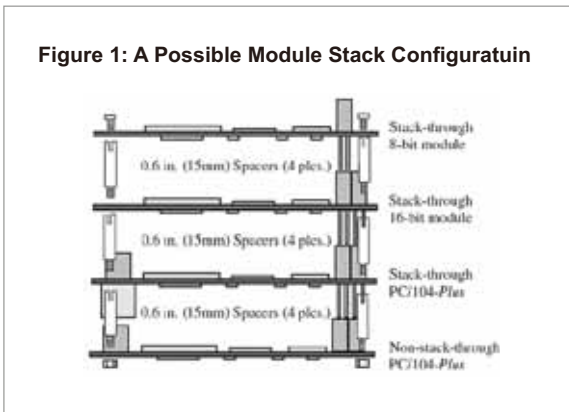


### Overview

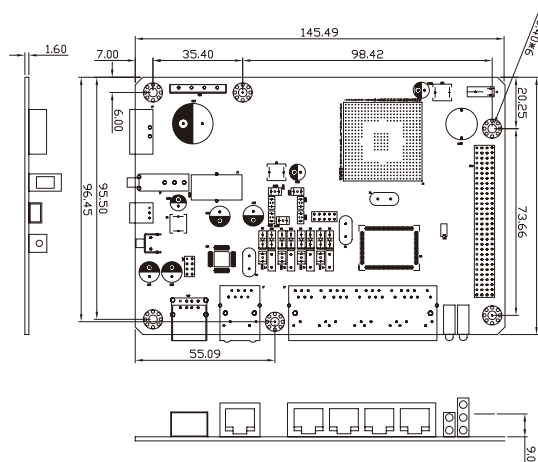
The JetCard 5400-w is a RISC-based 3.5" single board computer with Embedded Linux ready and advanced layer-3 router functionality. For the better, the JetCard 5400-w has one PCI-104 bus which can extend up to 4 PCI-104 cards with different functions such as serial, gigabit Ethernet, VGA, or CANbus... etc. Therefore, the JetCard 5400-w is an ideal development platform for industry to apply in all kinds of control applications.

#### PCI-104 stacking

The PCI-104 form factor supports the PCI bus. The maximum configuration for the PCI bus of PC/104-Plus modules is four plus the Host Board.



### Dimensions (Unit –mm)



## HW Specification

### System

**Processor:** Intel Xscale IXP435 400MHz RISC-based  
**System memory:** 128MB DDR2 RAM  
**System flash:** 32MB  
**Ethernet:** 10/100 Based-Tx RJ-45 connector x5  
**USB:** USB 2.0 x1 (Host)  
**Supporting devices:** USB flash, wireless dongle  
**Console port:** 3-pin header (RS232 interface)  
**LED per port (on the port):**  
 Link/Activity (Green on/Green blinking)  
 Full Duplex/Collision (Yellow on/ Yellow blinking)  
**LED per unit:**  
 Power on/off x1 (Green on/off)  
**Reset button x1**  
**HW Watchdog timer:**  
 Generates a time-out system reset, 1sec  
**Power Supply:**  
 DC 12~48V

**Power Consumption:** Max. 25W  
**OS support:** Embedded Linux 2.6.20

### Mechanical

**Dimension:** 146 (W) x 102 (D) mm  
**Net weight:** 0.4kg

### Environment

**Operating Temp:**  
 -40 ~ 176°F(-40 ~ 80°C), 5 to 95% RH  
**Storage Temp:** -40 ~ 176°F(-40 ~ 80°C), 5 to 95% RH

### Regulation

FCC class A, CE  
 EN55022 class A  
 EN55024  
 EN61000-3-2, 3  
 EN61000-4-2, 3, 4, 5, 6, 8, 11  
 IEC 60950  
**MTBF:** at least 200,000 hours @25°C  
**Warranty:** 5 years

\*to be confirmed

## Linux Specification

### Embedded Linux

**Bootloader:** JetBox bootloader  
**Linux Kernel:** 2.6.20  
**Shell:** GNU ash  
**File system:** jffs2, NFS, Ext2, Ext3, VFAT, FAT  
**Device drivers:** USB, Watchdog timer, UART, Ethernet  
**Protocol:** ARP, PPP, CHAP, IPv4, IPv6, PAP, ICMP, TCP, UDP, NFS, RIP, RIP-II, OSPF, ISIS, BGP, DVMRP, L2TP, PPTP, SLIP, VLAN, IPsec, OpenVPN  
**Software packages:** busybox (telnetd, inetd, udhcp),

e2fsprongs, i2c-tools, ltp-testsuite, microcom, mtd, pciutils, usbmount,usbutils, bridge-utils, ethtool, iptables, net-snmp, ntp, openssh, openssl,openVPN, openSWAN, pppd, pptp-linux, proftpd, samba, smtpclient, bind, l2tp, mrouted, quagga, wireless-tools, jamvm, syslogd, udhcp, setserial, goahead web server

### SDK

**Linux tool chain:** Gcc (C/C++ PC cross compiler), uClibc  
**Linux sample code**

## Ordering Information

### JetCard 5400-w Linux-Ready Intel IXP435 400MHz 3.5" SBC with PCI-104 slot

Includes:

- JetCard 5400-w x1
- Console cable x1
- Attached 2-pin power terminal block
- Quick installation guide
- Documentation and software CD-ROM

Industrial

PoE Switch

IP67/68

Ethernet Switch

Rackmount

Managed

Switch

Gigabit Switch

Redundant

Switch

Entry-Level

Switch

Networking

Computer

Communication

Computer

Ethernet

I/O Server

Serial Device

Server

Media

Converter

Multiport

Serial Card

SFP Module

Din Rail

Power Supply