FWA-3240 1U Rackmount Intel® Tolapai-based Platform with 4 Front LAN Ports & LCD Display

Startup Manual

Packing List

Before installation, ensure that the following materials have been received:

- One FWA-3240 Internet Security Platform
- One box of accessories
- One warranty certificate

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

Note: Acrobat Reader is required to view any PDF file. Acrobat Reader can be downloaded at: www.adobe.com/Products/acrobat/readstep2. html (Acrobat is a trademark of Adobe)

If you have any technical questions about the FWA-3240 or any other Advantech products, please visit our support website at:

http://www.advantech.com.tw/support

http://www.advantech.com.

For technical support and service, please visit our support website at:

http://www.advantech.com/support

This manual is for the FWA-3240 series Rev. A

Part No. 2002324000 1st Edition,
Print in China Nov 2008

Specifications

Standard SBC functions

- **CPU & Chipset:** Intel EP80579 Integrated Processor (Tolapai) supports 600/1066/1200 MHz processor
- **BIOS:** Award™ 4Mbit Flash
- **FSB:** 400/533 MHz
- **System memory:** Up to 2GB memory capacity. One DIMM socket supporting DDR2 SODIMM technology memory. 200-pin DDR2-533, DDR2-667 and DDR2-800 can be used.

Note: Due to the inherent limitations of PC architecture, the system may not fully detect 4 GB RAM when 4 GB RAM is installed.

- **CF Interface:** JMicron (SATA to IDE bridge) 1 x CF socket on IDE 0 (Primary)
- **SATA Interface:** 1 x 2.5" or 3.5" HDD bay Max. data transfer rate at 150 MB/sec.
- **Keyboard/mouse Pin header:** Supports standard PS/2 keyboard and mouse for debug and installation use.
- **USB 2.0:** 2 x USB 2.0
- **Serial:** 1 x RS-232 with RJ-45 connector

Ethernet interface

- **Interface:** 4 x 10/100/1000 Base-T
- **Controller:** Three GbE from Intel EP80579 Integrated Processor + Marvell 88E1111 PHY, One GbE from Intel 82574, with bypass function

Mechanical and Enviromental

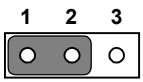
- **Dimensions(W x H x D):** 426 x 44 x 236 mm (16.8" x 1.7" x 9.3")
- **Power supply voltage:** 180 W, 90 ~ 240V AC, auto range
- **Operating temperature:** 0 ~ 40°C (32 ~ 104°F)
- **Weight:** 4.2kg (9.3lb)

Jumpers and Connectors

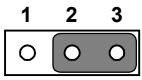
The board has a number of jumpers that allow you to configure your system to suit your application. The table below lists the function of each of the jumpers and connectors.

Connector/Jumper List	
Label	**Function**
CN2	Power Supply Connector 1x7Pin
CN9	CMOS Header 3Pin
CN1,CN2,CN12	FAN Header 4Pin
CN18	CF Header 50Pin
CN28	KB/MS Connector 1x8Pin
GF1	PCI Express Slot 64Pin
CN27	LPT Header 2x13Pin
CN23	RJ45 Connector, the default baud rate is 19200.
CN20	External Serial Pin Header
CN24	USB Connector
CN25 (Tolapai)	RJ45 for LAN Connectors
CN26 (Tolapai) CN21 (Tolapai) CN22 (82574L)	RJ45 for LAN Connectors
CN7	System Reset Header
CN13	Debug Port
CN29	External GPIO Header
CN17	LED Header

J1: CMOS clear function	
Pins	**Result**
1-2	Keep CMOS data*
2-3	Clear CMOS data
*: Default	

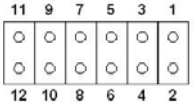


Keep CMOS data*



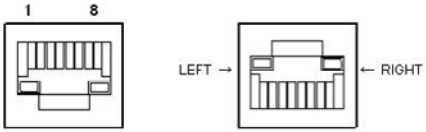
Clear CMOS data

CN29 : External GPIO Header	
Pins	**Result**
1	VCC
2	GND
3	9554 GPIO0
4	9554 GPIO1
5	9554 GPIO2
6	9554 GPIO3
7	9554 GPIO4
8	9554 GPIO5
9	9554 GPIO6
10	9554 GPIO7
11	GND
12	VCC



PH_6x2V_S2.00mm

CN21,CN25,CN26,CN22 : LAN Port	
LED status:	
GbE Link	Green (Left)
FE Link	Amber (Left)
Action Link	Green/Blink (Right)



RJ45 for LAN Connectors

Software Installation

Software tested list:

1. Linux Debian 2.6.18 kernel
2. Linux Redhat 5.0

Recommend customer to use Linux kernel 2.6.18 to develop their own S/W.

FCC

This device complies with the requirements in Part 15 of the FCC rules. Operation is subject to the following two conditions.

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Board Layout: Jumper and Connector Locations

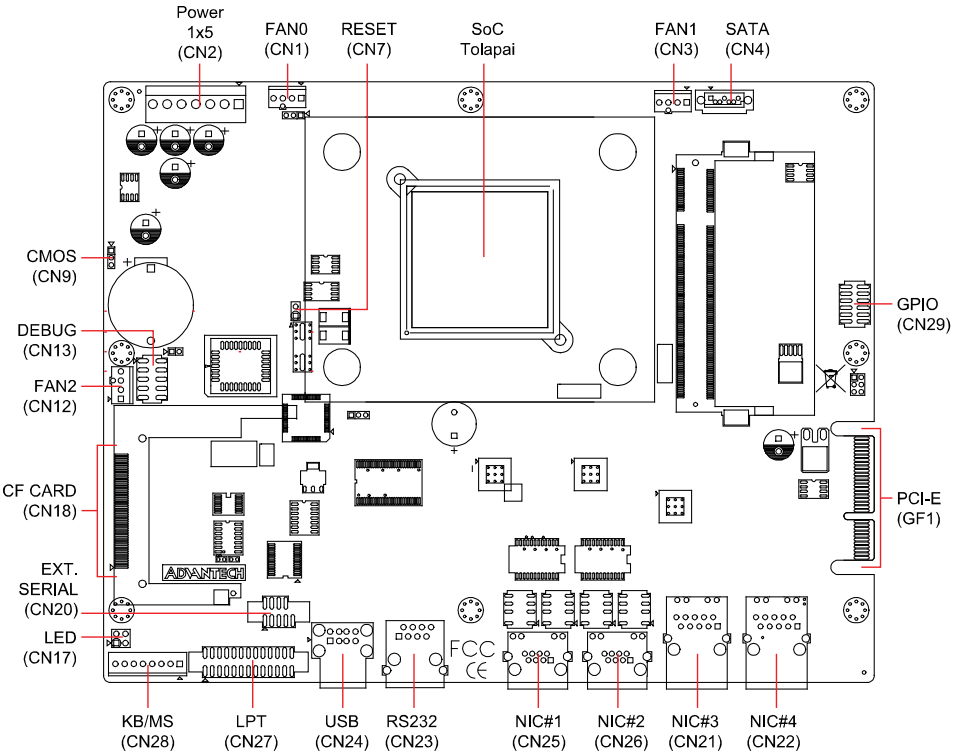


Figure 1: Board Layout: Jumper and Connector Locations