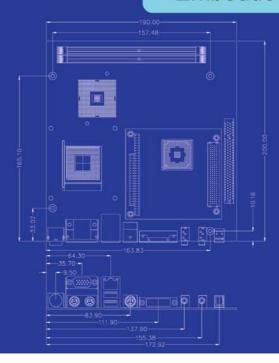# FI855A
Intel Pentium M
TWIN-VIEW / LVDS / 4 COM Ports / PC 104 Plus / Mini PCI

Processor
. Optimized for Intel Pentium M –Dothan processor
. 478-pin micro FC-PGA or 479-ball micro FC-BGA package
. Intel Pentium M CPU is offered 1.3/1.4/1.5/1.6/1.7GHz
. Low Voltage Intel Pentium M CPU is offered 1.1/1.2/1.3GHz
. Ultra Low Voltage Intel Pentium M CPU is offered 900M/1.0/1.1GHz
. Supports Intel Architecture with Dynamic Execution
. 400MHz,source-synchronous FSB
Options select
. 478-pin micro FC-PGA for 479-pin Intel Pentium M processor Socket
. 479-ball micro FC-BGA on board package

Chipset list
Intel Mobile Chipset Intel 855GME and Intel 82801DB ICH4
System Chipset list:
. MB chipset: Intel 855GME and Intel 82801DB ICH4
. VGA chipset: Intel 855GME Integrated Graphics chipset
. Sound Chipset: Realtek ALC 650 C97 2.3 SOUND
. LAN: Intel 82540EM/82541GI/Realtek RTL8100C/RTL8110SB three
  type optional.
. I/O: ITE IT8712F and Fintek F81216D IO
. TV/DVI chipset: Chrontel CH7009 for DVI and SDTV or Chrontel CH7015
  SDTV/HDTV

Memory
. Supports two double-sided DIMM with un-buffered PC
  1600/2100 DDR-SDRAM(with or without ECC)
. Supports 64Mbit,128Mbit,256Mbit,512Mbite for x 8 and x 16 width devices
. Maximum of 2Gbytes of system by using 512Mbit devices(double sided)
. Supports 200MHz and 266MHz DDR devices
. 64-bit data interface(72-bit with ECC)
. Supports up to simultaneous open pages

Graphic / Video
. Internal Graphics Memory Up to 64MB of dynamic video memory allocation
. Display/render frequency up to 250 MHz
. 3DvSetup and render engine, Zone rendering, High-quality performance texture engine
. 350MHz integrated 24-bit RAMDAC, Hardware color cursor support.
. Accompanying I2C and DDC channels provided through multiplexed interface.
. Dual independent pipe for dual independent display
. Simultaneous: Same images and native display timings on each display device.
. Improved hardware motion compensation for MPEG2, all format decoder
  (18 ATSC formats) supported, Dynamic Bob and Weave support video streams.
  Software DVD at 60 Fields/second and 30 frames / second full screen
. Digital Video Out Port DVO support 12bit interface, AGP4x compliant with DVI specification 1.5
TV OUT/ DVI ports (SDTV and DVI by Option 1 Chrontel CH7009)
TV OUT (SDTV and HDTV by Option 2 Chrontel CH7015)

LVDS Interface
. Single or dual channel LVDS panel support up to UXGA panel with
  frequency range from 25MHz to 112MHz per channel
. Supports data format of 18 bit LVDS interface
. Digital Video Out Port DVO support 12bit interface, AGP4x compliant with
  DVI specification 1.5

PCI Bus Master IDE
. Supports "Native Mode" register and interrupts.
. Independent timing of up to 4 drives, with separate primary and secondary
  IDE cable and secondary IDE cable connectors
. Ultra ATA 100/66/33,BMIDE and PIO modes
. Tri-state modes to enable swap bay.
. Two 40pin 2.54mm and One 44pin 2.0mm two type connectors.
. Support Compact Flash card type II for ATA interface.

Audio
. AC-Link for Audio CODEC
. Supports AC'97 2.3
. Support for up to six or two channels of PCM audio out (full AC3 decode)
. CD-in / Mic-in / Line-in /S/PDIF out support
. Provide two channels Audio Amplify about 2 Watt / 8 Ohm speaker

USB
. Includes three UHCI host controllers that support six external ports
. Includes one EHCI high-speed USB 2.0 Host Controller that supports all six ports
. Supports Legacy keyboard / mouse software.

IO function
. LPC (Low Pin Count) Interface
. Supports Hardware Monitor Controller
. Four ports 16C550 UARTs RS232 or Three ports RS232 and one port RS232/RS422/RS485
. Supports IrDA 1.0 / ASKIR protocols
. One FDC Interface for slim type FDD
LAN (Default Option 1 for Realtek 10/100Mb)
LAN (Option 2 for Realtek 10/100/Giga bit)
LAN (Option 3 for Intel 10/100/Giga bit)

DIO and WDT function
. Hardware Watch Dog Timer support can programmable 0—255 sec
. Hardware Digital Input Output provide 4 input and 4 output

Expend Interface
. One expend PCI rev:2.2 interface(Depend on PCI Riser Card can support max 2 PCI slots function)
. PC-104 Plus bus connector for 32bit PCI bus Maximum can expend to four PC 104 Plus card .
. One Mini PCI socket for PCI rev:2.2 interface.

Others function
. One Compact Flash Card Reader for IDE BUS ATA type II spec

Power
. On board power DC 15-20V input

Front Connector Header
. One power switch for power on
. One power LED
. One HDD LED
. One LAN LED

Back Panel Connectors
. One DC 19V in power mini pin jack
. One DB-15PIN VGA and PS2 Keyboard and Mouse port
. Two USB and One RJ45 LAN port
. One S-Video
. One DVI D-sub connector
. One Audio Jack for MIC-in
. One Audio Jack for Speak-out
. One SPDIF-out

BIOS
. Award BIOS version 6.1
. Support DMI 2.0 function
. ACPI v1.0 compliant
. APM v1.2 compliant
. Windows 9x/ME/2000 Plug and play BIOS

Temperature
. Operating 0~60°C

Dimension
. 190 x 200 mm

PC104 Plus Card
. 4 x Lan
. 4 x Video-in
. 2 x PCMCIA

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Lex SYSTEM ®