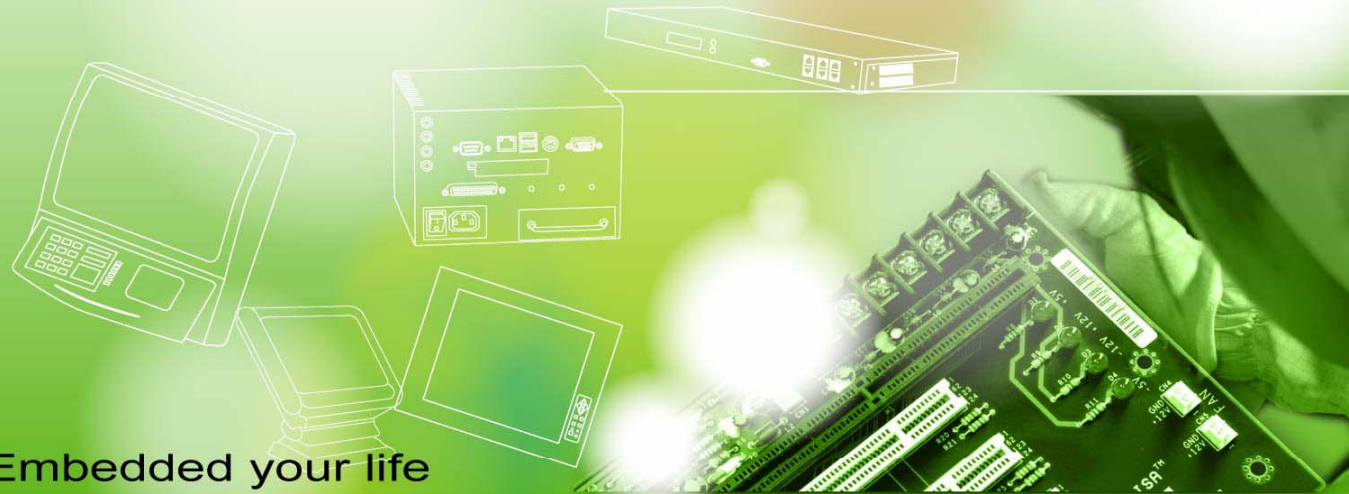


JUKI-LUKE

LOW Power VIA Solution with Maximum Display Flexibility

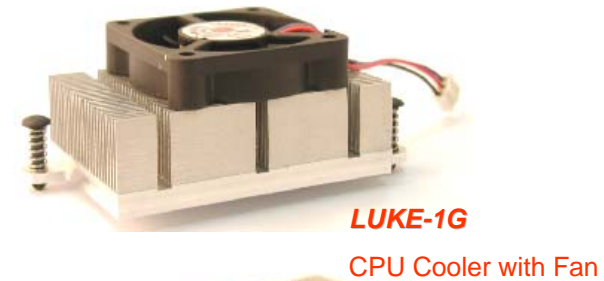
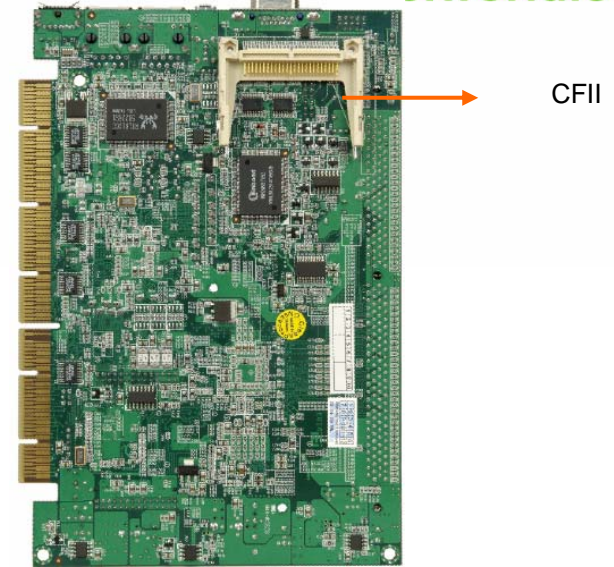
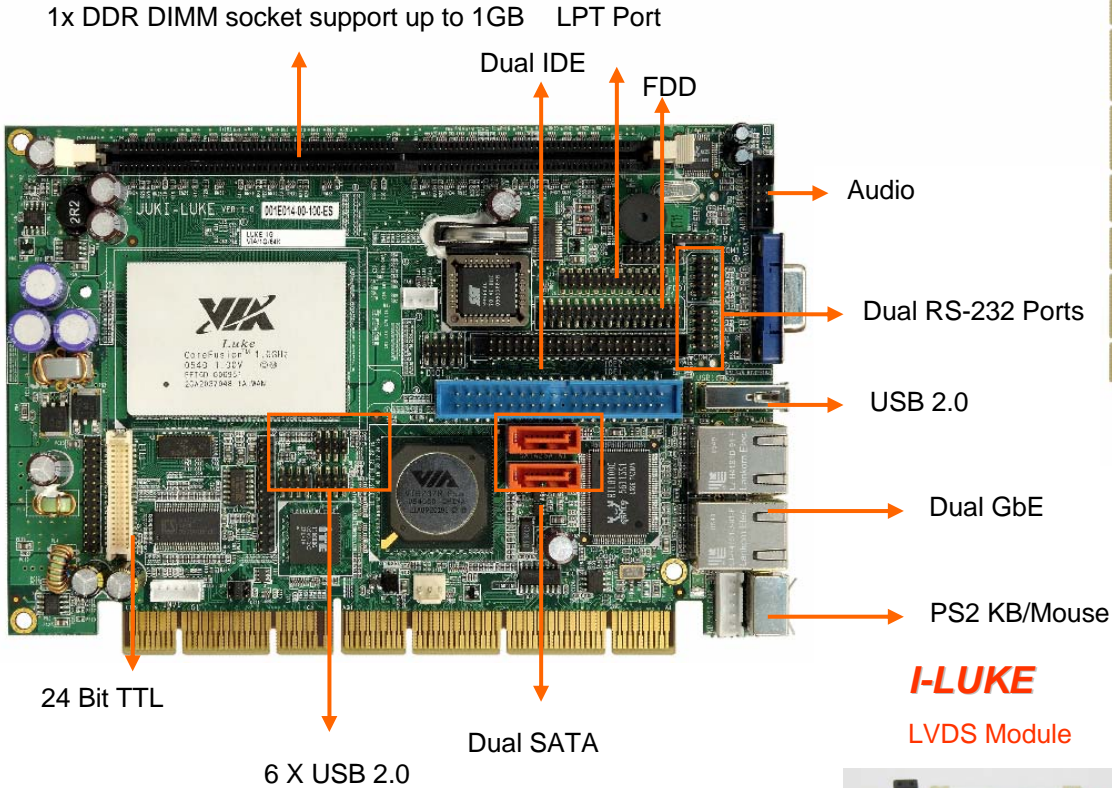


Solution innovator, Embedded your life



Member of ICP Group 

MPM



I-LUKE
LVDS Module



PCISA series is designed for supporting PCI and ISA add on cards. They have small form factors of the half-size chassis with most variable functional selectivity.



High Performance with Low thermal

JUKI-LUKE integrates VIA Eden-N processor with CN400 North Bridge in a low power package, support DDR 333/400 memory to extend product efficiency.

LUKE-1G High performance

LUKE-533 Fanless solution

Maximum Display Flexibility

Build-in high end graphic processor, provide a flexibility VGA display mode and LVDS, TTL capability.

Total functional integration

JUKI-LUKE supports various I/O such as CPU, LAN, COM USB 2.0, ideal for device need numerous peripheral devices platform.

Complete RoHS Fanless System

Complete RoHS Fanless system with RoHS chassis, Backplane, and Power Supply .

Green Product

RoHS Compliance



I. What's Luke

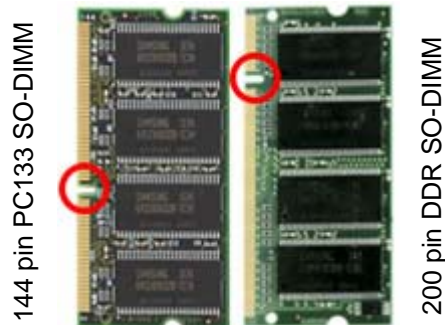


VIA Luke processor integrates the VIA **Eden-N** processor with the VIA **CN400** North Bridge in a single, low power, **RoHS** compliant package.

Heavy weapon ideal for Thin x86 architecture

- Combines with VIA VT8237R V-Link South Bridge for integrated LAN, Audio, ATA133 IDE, LPC, USB 2.0 and SATA
- Supporting DDR400 / 333 / 266 SDRAM
- S3 Graphics Unichrome Pro, separate 128-bit 2D and 3D graphics engines

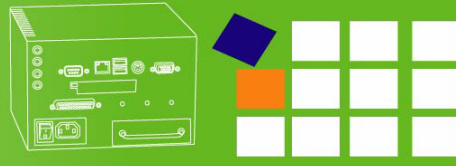
II. DDR-333/400 Support



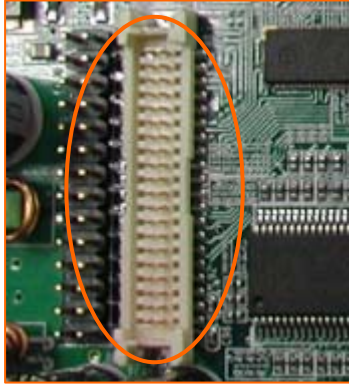
PC-133 vs.. DDR			
	Transfer Speed	Data Bandwidth	Voltage
SDRAM	133 MHz	1.1 GB/Sec	3.3V
DDR 200	100 MHz	1.6 GB/Sec	3.3V
DDR 266	133 MHz	2.1 GB/Sec	2.5V
DDR 333	166 MHz	2.7 GB/Sec	2.5V
DDR 400	200 MHz	3.2 GB/Sec	2.5v

Advantage

- I. Max Up to **300%** increase in memory bandwidth, and double operations per clock cycle
- II. The total power dissipation of DDR is at the average **40%** lower than normal SDRAM



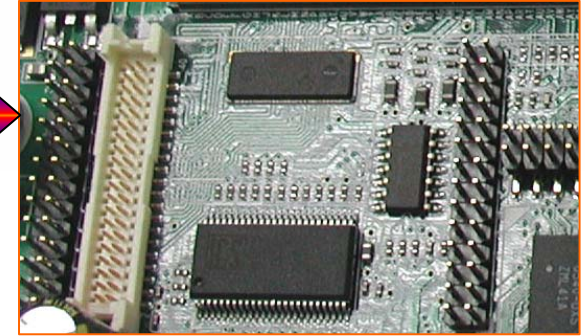
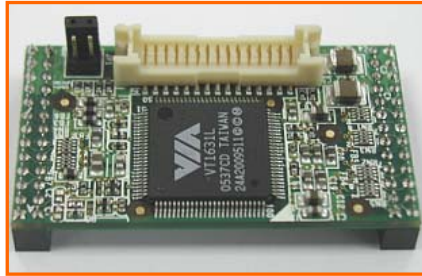
Option 1 *Onboard 24 Bit TTL*



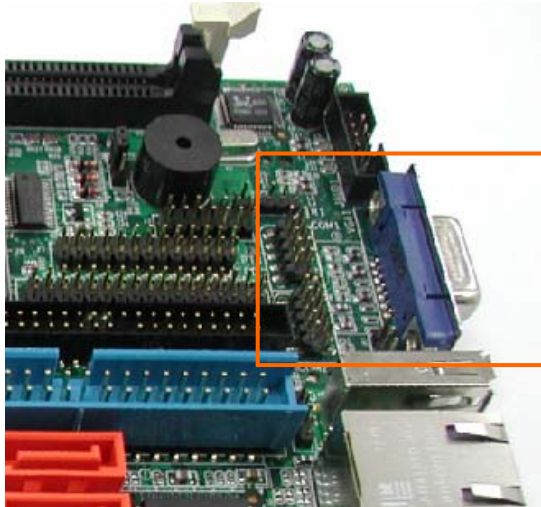
Option 2

iLUKE Module !!!

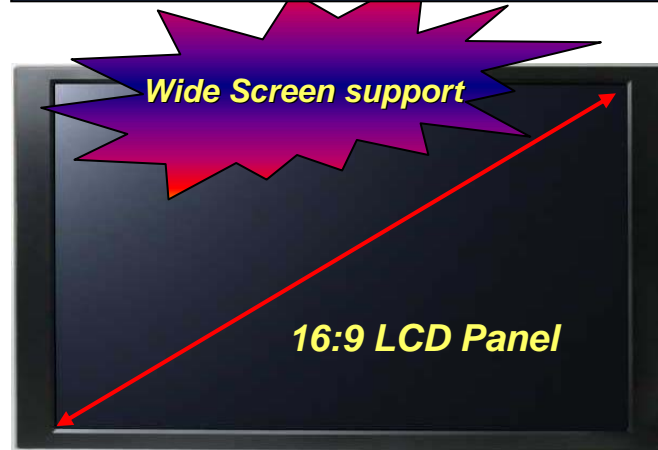
LVDS daughter board with dual 18 Bit or dual 24 Bit LVDS support.



Option 3 *VGA Connector*



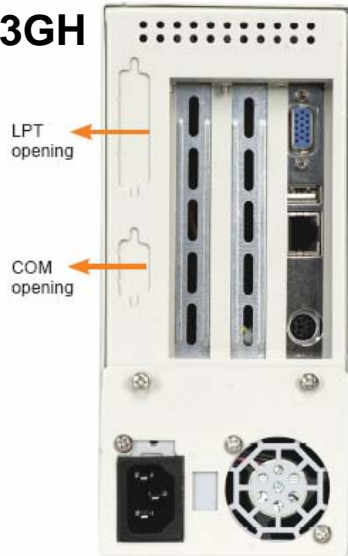
Special Function



Dual Display



PAC-53GH



Features



Features

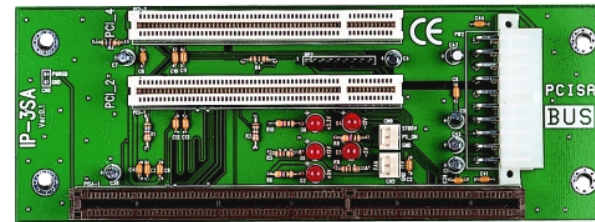
- ◆ RoHS compliant design
- ◆ 2 x USB ports on front panel
- ◆ 1 x 2.5" HDD drive capacity
- ◆ HDD bracket with anti-vibration rubbers

JUKI-LUKE-533

Fanless Version



IP-3SA



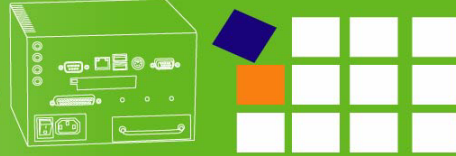
ATX Power Connector



ACE-4518AP

- > 100% Meet RoHS Compliance
- > High efficiency over 82%
- > Full functional over voltage / current protection
- > Complies with Flex ATX and ATX12V standard
- > Multiple safety / EMC certificated

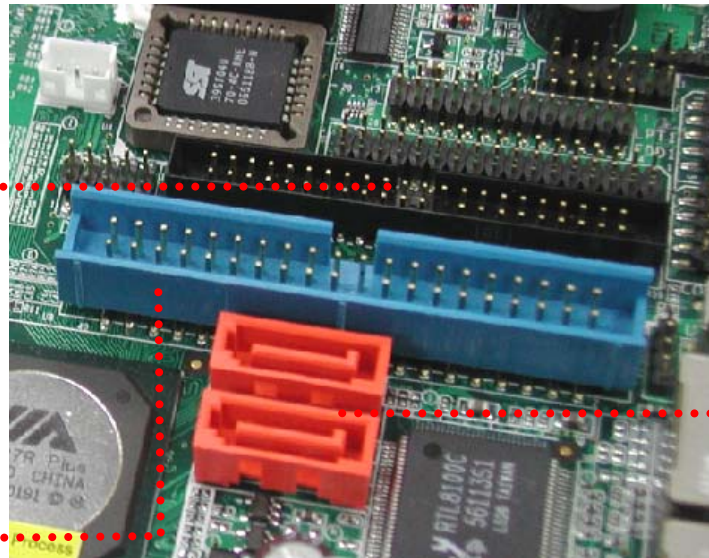
Equivalence Model



	JUKI-LUKE	PCISA-EDEN-400	PCISA-C800	JUKI-C3-1G
CPU Type	VIA LUKE 1GHz/533 MHz	VIA EDEN 400MHz	VIA C3 1GHz embedded	VIA C3 1GHz
Chipset	VIA LUKE + VT8237R	VIA 8601A + VT82C686B	VIA 8601A + VT82C686B	VIA 8606T + VT82C686B
Memory	DDR 400/333 MHz	PC 100/133 SDRAM up to 512MB	PC 100/133 SDRAM up to 512MB	PC 100/133 SDRAM up to 512MB
Graphic	CN400 in VIA LUKE	VIA 8601A integrated	VIA 8601A integrated	Integrate ProSavage in 8606T
LCD Interface	20-pin dual 18/24-bit channel LVDS	N/A	N/A	20-pin dual 18-bit channel LVDS
	50-pin for 24 Bit TTL			50-pin for TTL
	DB-15 for CRT			DB-15 for CRT
Ethernet	Dual GbE Realtek 8110S	Single 10/100Mbps Realtek 8100B	Single 10/100Mbps Intel 82559	Dual 10/100Mbps Intel 82551
			Or Single 10/100Mbps Realtek 8100B	Or Dual 10/100Mbps Realtek 8100B
I/O Interface	2 x RS-232	2 x RS-232	2 x RS-232	4 x RS-232
	1 x PS/2 KB/MS	1 x PS/2 KB/MS	1 x PS/2 KB/MS	1 x PS/2 KB/MS
	1 x LPT (SPP/EPP/ECP)	1 x LPT (SPP/EPP/ECP)	1 x LPT (SPP/EPP/ECP)	1 x LPT (SPP/EPP/ECP)
	7 x USB 2.0	4 x USB 1.1	4 x USB 1.1	3 x USB 2.0
	1 x IrDA	1 x IrDA	1 x IrDA	2 x USB 1.1
Drive Interface	2 x IDE ATA-100/66/33	2 x IDE ATA-100/66/33	2 x IDE ATA-100/66/33	1 x IDE ATA-100/66/33
	1 x FDD	1 x FDD	1 x FDD	1 x FDD
Audio	AC'97 Codec	AC'97 Codec	AC'97 Codec	AC'97 Codec
SSD	CF Type II	CF Type II	CF Type II	CF Type II

JUKI-LUKE supports various storage solutions such as 44 Pin IDE, 40 Pin IDE, dual SATA connectors, and CFII

I. 40 Pin IFM or 3.5" HDD



III. Dual SATA ports with RAID 0,1 support



IV. CFII

IEI Industrial CF / Flash Module

II. 44 Pin IFM or 2.5" HDD



Industrial Standard



- RoHS ready
- More reliable Solution
- True IDE Mode (PIO4 Support) Master/Slave Select
- ECC function
- Max Data Transfer Rate: Read 10M/S, Write 8M/S
- MCTF (Mean cycle to failure): 11.5 M
- Operating Temperature:
 - Industrial : -10°C ~70°C
 - Wide Temp : -40°C ~85°C



Specification

CPU

VIA LUKE1GHz/533MHz processor

System Chipset

VIA VT8237R+

BIOS

AMI

System Memory

1 x DDR 400/333MHz SDRAM upto 1GB

Ethernet

Dual RTL8110SBL for GbE

I/O Interface

7 x USB 2.0

2 x SATA

1 x LPT

1 x FDD

1 x CFII

2 x RS-232,

2 x PS/2 keyboard/mouse

2 x IDE

Digital I/O

4 input / 4 output by supper I/O

Super I/O

W83697HG

Audio

AC'97 Codec Realtek ALC655

Display

CRT integrated in VIA LUKE

TTL

Dual 18-bit TTL LCD integrated in VIA LUKE

Watchdog Timer

Software programmable supports 1~255 sec. system reset

Power Supply

+5V± 5%, AT/ATX power support

Power Consumption

5V@2A, 12V@0.073A

LUKE-1G, 256MB/DDR400

Temperature

Operation: 0° to 60°C

Humidity

operation: 5% to 95%,

Dimension

Weight

GW:Kg; NW: Kg





Packing List

1 x JUKI-LUKE single board computer	1x USB cable P/N: CB-USB02A-RS
1 x Mini jumper pack	1 x Audio cable (P/N: 32000-072101-RS)
1 x IDE flat cable 40p/40p/40p (P/N: 32200-000052-RS)	1 x KB/PS2 Mouse Y cable P/N: 32000-000138-RS
2 x SATA cable (P/N: 32000-062800-RS)	1 x Utility CD
1 x SATA power cable (P/N: 32100-088600-RS)	1 x QIG (quick installation guide)
1 x RS232 cable P/N: 32200-028401-RS	

Ordering Information

Part No.	Description
JUKI-LUKE-533-R10	PCISA with VIA LUKE 533MHz processor, Audio, CRT, TTL LCD, and dual GbE connectors
JUKI-LUKE-1G-R10	PCISA with VIA LUKE 1GHz processor, Audio, CRT, TTL LCD, and dual GbE connectors
ILUKE-LVDS-R10	I-LUKE LVDS module with dual 18/24 bit channel LVDS support.
32200-000058-RS	FDD cable
32200-015100-RS	LPT cable