



is the first in a new series of **mini-ITX** embedded mainboard solutions from *Freescale* and STx called **Septia**

HELLROSA

MPC5121e Advanced Development System Board

10 year minimum Life
Industrial Temperature

Ask us about automotive and military qualification

Mini-ITX Mainboard

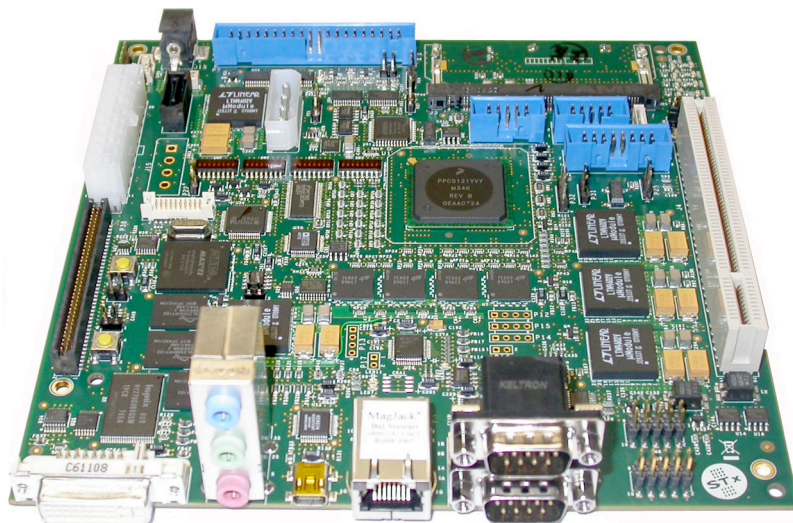
- LVDS 24bit (LCD), VGA, HDMI, Video
- Stereo Audio with AC97, in/out/aux
- SATA/PATA (IDE)
- PCI, mini-PCI (radio slots)
- 10/100 Ethernet copper
- RS232, CAN (2 each, Dsub and RJ)
- DDR2 RAM with power save hibernate
- NOR, NAND, and backup FLASH
- Local bus IO connector
- USB A, B, OTG
- JTAG and control CPLD

Ruggedization Service

- Industrial Temp -40°C to 85°C or more
- Thermal Cycle/Burn-In
- Shock, Vibration
- Coating/humidity
- Call for Custom

Add-On Feature Modules

- Bluetooth Radio
- Camera/Image Capture
- Microphone
- GPS Module
- Echo Cancellation Module
- Profibus/Fieldbus



The new Freescale MPC5121e CPU draws less than 2 watts! No fan or heatsink needed!

MINI-ITX Accessories and Integration Services

Cases and customized backplate with silkscreen
LCD panel or monitor, inverter, touchscreen
Radios: USB 802.11 & MiniPCI Wi-MAX
DRAM modules & memory upgrades
Hard drive (IDE or SATA) or solid-state (FLASH)
CDROM or DVD drive
PCI Riser cards or other peripherals inside the case
Cables of every kind:

- Power: ATX/ 4pin ATX/AC extender
- IDE, ultra IDE (PATA)
- SATA: data and power
- LVDS video (LCD)
- VGA/HDMI
- VGA splitter
- USB- various
- Firewire 1394
- 232, 422, CAN, J1850
- Audio RCA

And more!

HELLROSA Features

Board Size 17x17cm Standard

Operating Temperature

0°C to 70°C standard

-40°C to 85°C industrial

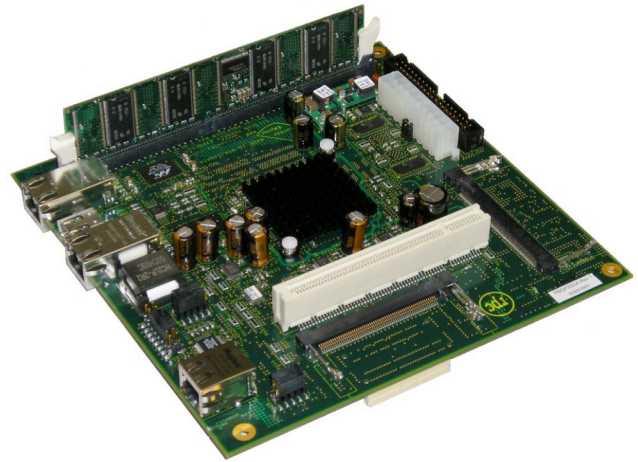
-55°C to 105°C (please call)

Weight

200 g (varies with configuration)

Power Requirement

Standard ATX or wallcube



STx has other Power architecture such as Our Mini-ITX MPC8555/8541 mainboards

sepia Series Software

Operating Systems

Linux WRS

QNX GHS

Other IDE and RTOS

Graphics Solutions

ALT

Tilcon

KDE

Cellular Connectivity

GPS location

Touchscreen

Bluetooth

Voice Recognition

Wireless (802.11, 802.16)

Database client

Typical Sepia Applications

- Automotive Telematics
- Industrial Automation
- SCADA/Instrumentation
- Medical devices
- Ruggedized long-life products
- Heavy Equipment: Construction, truck, bus, fleet, asset track

Contact us!

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Shipping in Volume, 2008

Each board includes schematics, user manual/quickstart, opensource software, & support contact information for STx