



MPC5121e Advanced Development System ODM Reference Board

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

10 year minimum Life Industrial Temperature

Ask us about automotive and military qualification

Mini-ITX Mainboard

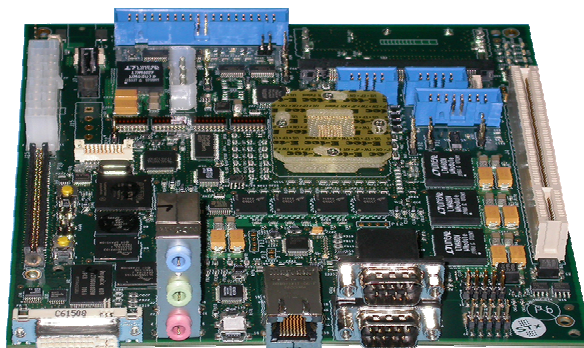
- LVDS 24bit (LCD), VGA, HDMI, Video
- Stereo Audio with AC97, in/out/aux
- SATA/PATA (IDE)
- PCI, mini-PCI (radio slots)
- 10/100 Ethernet copper
- RS232, CAN (2 each, Dsub and RJ)
- DDR2 RAM with power save hibernate
- NOR, NAND, and backup FLASH
- Local bus IO connector
- USB A, B, OTG
- JTAG and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



ADS512101

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

Sepia 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
 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 (call)

Weight

200 g (varies with configuration)

Power Requirement

Standard ATX or wallcube



STx has other PowerPC solutions 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 late 2007, Price USD \$1299.00

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