KINO-9454
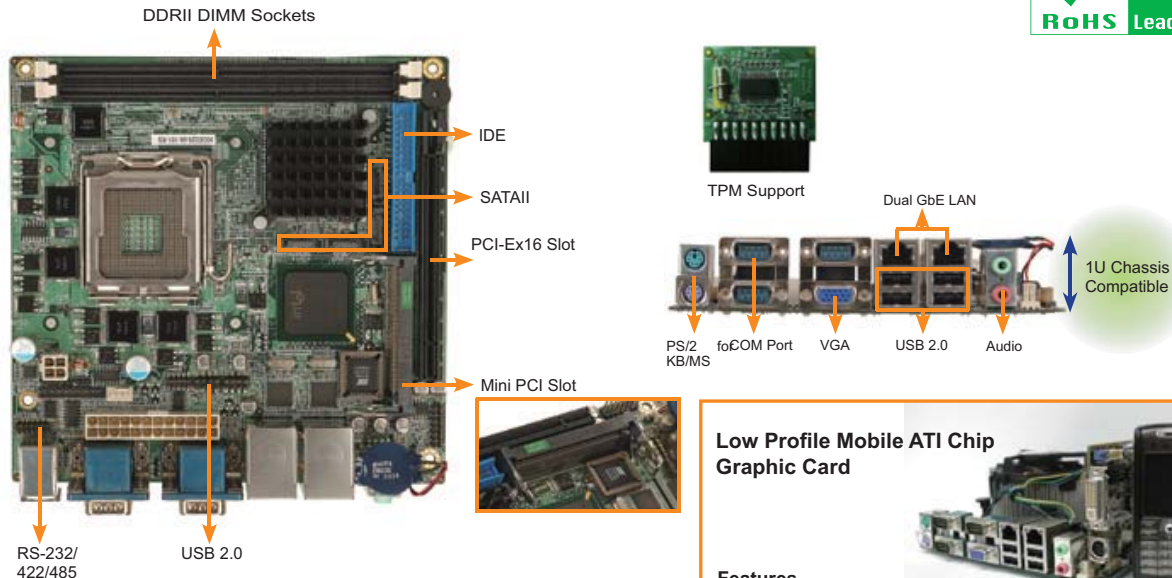
Mini-ITX Motherboard with Intel® Pentium® 4/ Pentium® D 1066/800/533MHz CPU, SATAII, Dual PCI-E GbE, USB 2.0 and Audio

RoHS Lead Free

DDRII DIMM Sockets

IDE

SATAII

PCI-Ex16 Slot

Mini PCI Slot

RS-232/ 422/485

USB 2.0

TPM Support

Dual GbE LAN

1U Chassis Compatible

PS/2 KB/MS   for COM Port   VGA   USB 2.0   Audio

Low Profile Mobile ATI Chip Graphic Card

Features
- Low Power: ATI 1600 Mobile Graphic Chip
- Low Profile: **8-cm Low** Profile
- DVI/ VGA/ HDTV/ Dual channel 24-bit LVDS Output
- PCI-E*16 High Performance

Feature

1. Intel® Pentium® 4/ Pentium® D FSB 1066/800/533MHz processor
2. Analog CRT integrated in Intel® 945G
3. DDRII 667/533/400MHz DIMM socket support up to 4GB
4. Dual BROADCOM BCM5787 for PCI express GbE

Specification

DDRII 667

USB   Gigabit Ethernet PCI-E   SERIAL ATA   Windows Embedded

- **CPU**
  LGA 775 Intel® Pentium® D/4/Celeron® D with 533/800/1066 MHz FSB
- **System Chipset**
  Intel® 945G + ICH7
- **BIOS**
  AMI BIOS Label
- **System Memory**
  2 x 240-pin Dual channel DDRII 400/533/667 Mhz up to 2GB
- **Ethernet**
  Dual Broadcom BCM5787 PCI-E GbE with ASF2.0 remote control support.
- **I/O**
  8 x USB 2.0
  4 x SATAII-300
  1 x IDE
  3 x RS-232
  1 x RS-232/422/485
  2 x PS/2 for KB/MS
  1 x 20-pin LPC (TPM Module)
  Expansion
  1 x PCI-E x16(Support PCI-Ex1/2/4/8/16 PCI-E add on cards)
  1 x Mini PCI

- **IrDA**
  1 x IrDA by pin header
- **Super I/O**
  ITE8712
- **Digital I/O**
  8 bit digital I/O, 4 input / 4 output by super I/O
- **Audio**
  Realtek ALC655 with AC'97 codec
- **Display**
  Analog CRT integrated in Intel 945G
- **Watchdog Timer**
  Software programable 1-255 sec. by supper I/O
- **Power Supply**
  ATX support
- **Power Consumption**
  5V@1.8A, +12V@5.81A, +3.3V@3.49A, 5VSB@0.37A
  (Pentium 4 3.06GHz, DDR2 533MHz 1GB*1) -- 3D MARK
- **Temperature**
  Operation: 0 ~ 60° C (32 ~ 140° F)
- **Humidity**
  Operation: 5% ~ 95% non-condensing
- **Dimension**
  170 mm x 170 mm
- **Weight**
  GW: 1100 g; NW: 400 g

Real time Thermal Testing

Real Time thermal testing shows the thermal handling ability of KINO-9454

Front IR Testing

Solder IR Testing
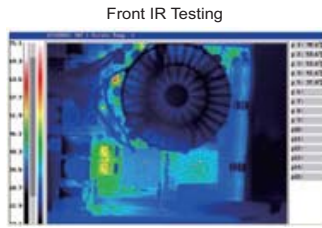
Low Profile design for Embedded chassis

ECK-3699G

The Embedded solution of KINO-9454

1U Chassis Compatible with rich I/O interface

1U Chassis Compatiable

Dimension
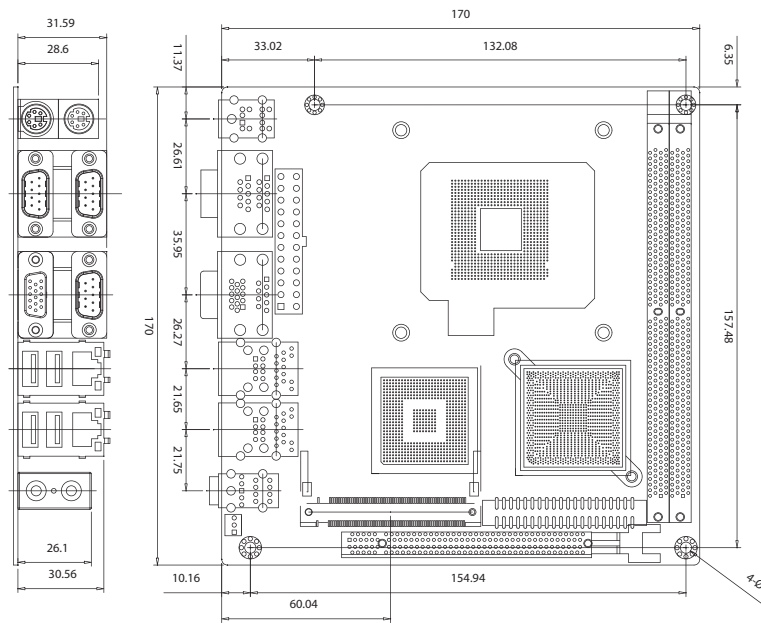
Packing List

1 x KINO-9454 Single Board Computer	1 x I/O Shielding (P/N: 41003-0186C0-00-RS)
1 x IDE Cable (P/N: 32200-000052-RS)	1 x Mini Jumper Pack
1 x SATA Power Cable (P/N: 32100-088600-RS)	1 x Utility CD
2 x SATA Cable (P/N: 32000-062800-RS)	1 x QIG (Quick Installation Guide)

Ordering Information

Part No.	Description
KINO-9454-R10	Mini ITX Motherboard with Intel Pentium D 1066MHz Processor, Dual PCI-E GbE, SATAII and Audio
PVGA-M1600L	ATI M56P mobile grade PCI Express Graphic Card with VGA,DVI, 1080i HDTV and dual channel 24-bit LVDS interface.
32200-000077-RS	RS-232/422/485 Cable
CB-USB02-RS	USB Cable
CF-520-RS	CPU Cooler
CF-775A-RS	CPU Cooler