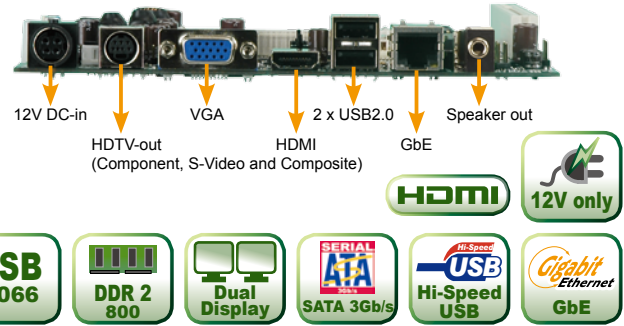
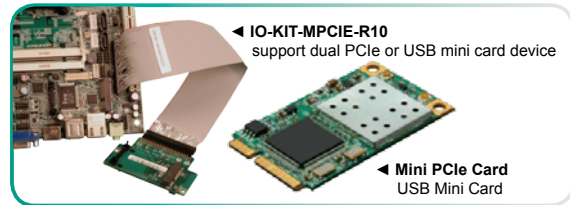
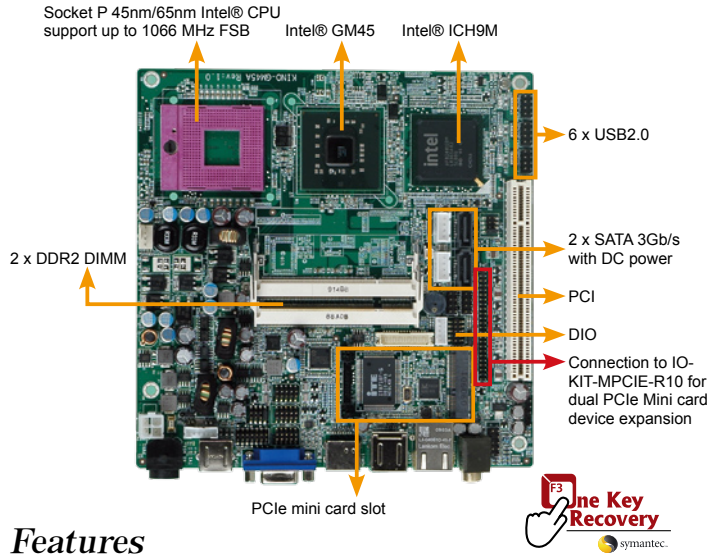


KINO-GM45A

Mini-ITX SBC with Socket P for Intel® 45nm mobile Core™2 Quad/ Duo Penryn CPU, VGA/HDMI/LVDS, PCIe GbE, USB 2.0, PCIe Mini, SATA 3Gb/s and Audio, RoHS



Features

1. Socket P for 45nm Intel® mobile Core™2 Quad/ Duo Penryn CPU with FSB 1066 MHz
2. Intel® GMA4500MHD for DX10, Shader Model 4.0, high performance MPEG-2 decoding, WMV9 (VC-1) and H.264 (AVC) support
3. Display output support by VGA, LVDS, HDMI, HDTV
4. Single 12V DC input, four COM, two SATA, eight USB2.0
5. One Key Recovery solution allows you to create rapid OS backup and recovery

Specifications

- ◆ CPU
Socket P Intel® 45nm Core™ 2 Quad/Duo processor with 1066/800MHz FSB
Socket P Intel® 45nm Pentium® M/ Celeron® M processor with 800/667MHz FSB
- ◆ System Chipset: Intel® GM45 + ICH9M
- ◆ BIOS: AMI BIOS
- ◆ Memory
Two 200-pin 667/800 MHz dual-channel DDR2 SO-DIMM supported (system max. 4GB)
- ◆ Ethernet: Realtek RTL8111CP GbE controller
- ◆ I/O Interface
8 x USB2.0 2 x SATA 3Gb/s
1 x 6-pin pin header for KB/MS
3 x RS-232 (COM1, COM3, COM4)
1 x RS-232/422/485 (COM2)
- ◆ Graphic: Intel® GMA4500MHD
- ◆ Expansion:
1 x PCIe Mini card, 1 x PCI
1 x Dual PCIe Mini card slot (by IO-KIT-MPCIE-R10)
- ◆ Digital I/O:
8-bit digital I/O, 4-bit input/ 4-bit output
- ◆ Super I/O: ITE IT8718F
- ◆ Audio: Realtek ALC888 HD codec
- ◆ Display Output
VGA integrated in the Intel® GM45 support Hot-Plug and resolution up to QXGA
18/24-bit dual-channel LVDS support
HDMI support up to 1080p
HDTV for component, S-Video and composite output interfaces
- ◆ Watchdog Timer
Software programmable support 1~255 sec. system reset
- ◆ Power Supply
Single voltage 12V DC input
1 x External 4-pin DIN DC jack
1 x Internal 4-pin (2x2) power connector
- ◆ Power Consumption
12V@5.56A (2.0GHz Intel® Core™2 Quad Q9000 with two 1GB 800MHz DDR2 SO-DIMMS)
- ◆ Temperature
Operation: 0°C ~ 60°C (32°F ~ 140°F)
- ◆ Humidity
Operation: 5% ~95% non-condensing
- ◆ Dimensions: 170mm x 170mm
- ◆ Weight: GW: 1000g / NW: 390g

Packing List

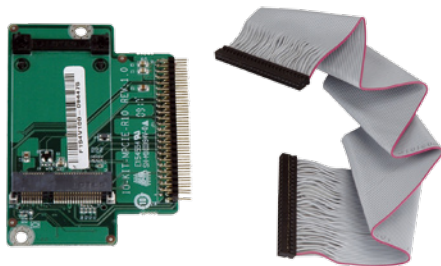
1 x KINO-GM45A single board computer	1 x IO shielding (P/N: 45014-0030C0-00-RS)
1 x Dual RS-232 cable (P/N: 19800-000112-RS)	1 x KB/MS Y cable (P/N: 32000-023800-RS)
1 x Audio cable (P/N: 32000-072100-RS)	1 x Mini jumper pack
2 x SATA with power output cable (P/N: 32801-000100-100-RS)	1 x QIG
	1 x Utility CD

Ordering Information

Part No.	Description
KINO-GM45A-R10	Mini-ITX SBC with Socket P for Intel® 45nm mobile Core™2 Quad/ Duo Penryn CPU, VGA/HDMI/LVDS, PCIe GbE, USB2.0, PCIe mini, SATA 3Gb/s and Audio, RoHS
IO-KIT-MPCIE-R10	PCIe/USB mini card expansion module
CB-USB02-RS	Dual USB cable
CF-479B-RS	CPU cooler
32100-088600-RS	SATA power cable
SAIDE-KIT01-R10	SATA to IDE/CF converter board
WMPCIE-V01-R30	PCIe Mini card wireless LAN module
WMUSB-V01-R20	USB Mini card wireless LAN module
32200-026500-RS	RS-232/422/485 cable
32200-000049-RS	Single port RS-232 cable
32100-192900-RS	One 4-pin(2x2) to one 4-pin(1x4) DC power cable with terminal block
32000-083100-RS	HDTV out cable
63000-FSP096AHB-RS	96W/12V Power Adaptor 90VAC~260VAC, DIN 4 PIN

IO-KIT-MPCIE-R10

Dual PCIe/USB mini card expansion module



Packing List

- 1 x PCIe/USB mini card expansion module (P/N: IO-KIT-MPCIE-R10)
- 1 x connection cable (P/N: 32225-000100-100-RS)
- 1 x QIG

Ordering Information

Part No.	Description
IO-KIT-MPCIE-R10	PCIe/USB mini card expansion module

Dimensions (Unit: mm)

