

OT905-B Series COM Express® Compact



Specifications

APU (Accelerated Processing Unit)

- OT905-BT56N:
 - AMD® T56N, 1.65GHz, 2x 512KB L2, 18W TDP, dual-core
 - Cooling option: heat sink with cooling fan
- OT905-BT40N:
 - AMD® T40N, 1.0GHz, 2x 512KB L2, 9W TDP, dual-core
 - Cooling option: heat sink with cooling fan

CHIPSET

- AMD® A55E Controller Hub

SYSTEM MEMORY

- One 204-pin DDR3 SODIMM socket
- Supports DDR3 1066/1333MHz (OT905-BT56N)
 - Supports DDR3 1066MHz (OT905-BT40N)
- Supports single channel memory interface
- Supports up to 8GB system memory
- DRAM device technologies: 1Gb, 2Gb and 4Gb DDR3 DRAM technologies are supported for x8 and x16 devices, unbuffered, non-ECC

ONBOARD GRAPHICS FEATURES

- Advanced discrete-level GPU integrated in the processor
 - AMD Radeon™ HD 6320 (OT905-BT56N)
 - AMD Radeon™ HD 6290 (OT905-BT40N)
- Supports LVDS and VGA interfaces
- Supports DirectX 11, OpenGL 3.2 and OpenCL 1.1
- Supports AMD Turbo Core 2.0 technology
- LVDS: Chronitel CH7511B, 24-bit dual channel
- VGA display resolution
 - Up to 2048x1536 (OT905-BT56N)
 - Up to 1920x1200 (OT905-BT40N)
- Supports Hardware H.264, MPEG4 Part 2, VC-1, and MPEG2 decode

ONBOARD AUDIO FEATURES

- Supports High Definition Audio interface

ONBOARD LAN FEATURES

- Intel® 82574L Gigabit Ethernet Controller
- Integrated 10/100/1000 transceiver
- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab

SERIAL ATA (SATA) INTERFACE

- Supports 4 Serial ATA interfaces
- SATA 3.0 with data transfer rate up to 6Gb/s
- Integrated Advanced Host Controller Interface (AHCI) controller
- Supports RAID 0/1/5/10

IDE INTERFACE

- JMicron JMB368 PCI Express to PATA host controller
- DMA mode: Ultra ATA up to 100MB/s
- PIO mode: up to 16MB/s

TRUSTED PLATFORM MODULE (TPM) - optional

- Provides a Trusted PC for secure transactions
- Provides software license protection, enforcement and password protection

WATCHDOG TIMER

- Watchdog timeout programmable via software from 1 to 256 seconds

EXPANSION INTERFACES

- Supports 8 USB 2.0 ports
- Supports 6 PCIe x1 interfaces
- Supports 4 PCI interfaces
- Supports 8-bit Digital I/O
- Supports 1 IDE interface
- Supports LPC interface
- Supports SMBus interface

DAMAGE FREE INTELLIGENCE

- Monitors CPU temperature and overheat alarm
- Monitors CPU fan speed and failure alarm
- Monitors Vcore/Vnb/1.5V voltages and failure alarm
- Watchdog timer function

BIOS

- 32Mbit SPI BIOS

POWER CONSUMPTION

- 17.21 W with T40N at 1.0GHz and 1x 2GHz DDR3 SODIMM

TEMPERATURE

- Operating: 0°C to 60°C
- Storage: -20°C to 85°C

HUMIDITY

- 10% to 90%

POWER INPUT

- 12V, 5VSB, VCC_RTC (ATX mode)
- 12V, VCC_RTC (AT mode)

PCB

- Dimensions
 - COM Express® Compact
 - 95mm (3.74") x 95mm (3.74")
- Compliance
 - PICMG COM Express® R2.0, Type 2

CERTIFICATION

- CE
- FCC Class B
- RoHS

Packing List

- 1 OT905-BT56N or OT905-BT40N board
- 1 Heat sink kit
- 1 DVD
- 1 QR (Quick Reference)

Optional Items

- COM330-B carrier board kit
- Cable kit for carrier board