

conga-QA

Module for ultra mobile applications

Lowest power consumption

Fast serial differential interfaces for high data bandwidth

Q S E V E N



Original size (70x70 mm², 2¾" x 2¾")

Ultra Mobile

Ultra compact Qseven™ module based on Intel® Atom™ Processor Z5xx

| | |
|----------------------------------|--|
| Formfactor | Qseven Form Factor, 70x70 mm² |
| CPU | Intel® Atom™ processor Z530 1.6 GHz, 533 MHz FSB and memory bus speed, 512k L2 cache, 45 nm, with Hyper-Threading Technology Intel® Atom™ processor Z510 1.1 GHz, 400 MHz FSB and memory bus speed, 512k L2 cache, 45 nm |
| DRAM | Up to 1 GByte on-board DDR2 memory with 400/533 MT/s |
| Chipset | Intel® SCH US15W |
| I/O Interfaces | 8x USB 2.0, 1x SATA, 1x SDIO, 1x PCIe, I ² C Bus, 1x USB client |
| Mass Storage | On-board ATA Solid State Drive up to 4 GByte (optional) |
| Sound | Intel® High Definition Audio (Intel® HD Audio) |
| Ethernet | Gigabit Ethernet Realtek RTL8111 |
| Graphic Interface | Intel® Graphics Media Accelerator 500 (Intel® GMA 500), up to 256 MByte frame buffer supporting Direct X 9.0E and Open GL 2.0 |
| Video Decode Acceleration | Full hardware acceleration for MPEG2, MPEG4, H.264, WMV9 and VC1 |
| Display Interfaces | Single channel 112MHz LVDS transmitter, support for flat panels with 1x18 and 1x24 bit data mapping up to resolutions of 1366x768 pixel Single channel SDVO interface, supports resolutions up to 1280x1024 pixel Dual independent display support |
| congatec Board Controller | Multi Stage Watchdog, non-volatile User Data Storage, Manufacturing and Board Information, Board Statistics, BIOS Setup, Data Backup, I ² C bus (fast mode, 400 kHz, multi-master), Power Loss Control |
| Embedded BIOS Features | OEM Logo, OEM CMOS Defaults, LCD Control, Display Auto Detection, Backlight Control, Flash Update, based on AMIBIOS® |
| Power Management | ACPI 3.0 compliant, Smart Battery Management |
| Operating Systems | Windows® XP, Windows® XP embedded, Windows® CE 6.0, LINUX, QNX |
| Power Consumption | Typ. application ~5 Watt @ 5V |
| Temperature | Operating: 0 to +60°C Storage: -20 to +80°C, extended temperature versions in preparation |
| Humidity | Operating: 10 to 90% r. H. non cond. Storage: 5 to 95% r. H. non cond. |
| Size | 70 x 70 mm ² (2¾" x 2¾") |



congatec

the rhythm of embedded computing

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