

# Industrial Single Board Computer

## Mini-ITX motherboard

### LV-667

VIA CN400 with DDR266/333/400

Onboard VGA, Dual LAN, Mini-AGP

SATA, IEEE1394, USB2.0, 4 x COM

AC97 5.1 Channel Audio



|                             |                                                                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form Factor</b>          | Mini-ITX compact motherboard                                                                                                                                                      |
| <b>CPU</b>                  | Embedded VIA C3/Eden Processor<br>Speed: 1.0GHz/800MHz (Fanless with Eden 800MHz)<br>Front side bus: 133MHz<br>L1/L2 Cache: 128KB/64KB<br>(Optional up to 1.2GHz with 200MHz FSB) |
| <b>Memory</b>               | 1 x 184-pin DDR266/333/400 SDRAM up to 1GB                                                                                                                                        |
| <b>Chipset</b>              | VIA CN400 & VT8237                                                                                                                                                                |
| <b>Real Time Clock</b>      | Chipset integrated RTC with onboard lithium battery                                                                                                                               |
| <b>Watchdog Timer</b>       | Winbond W83697UF with system generates 256 levels reset                                                                                                                           |
| <b>Power Management</b>     | ACPI 1.0 compliant, supports power saving mode with ATX PSU                                                                                                                       |
| <b>PCI Enhanced IDE</b>     | Two UltraATA/100 IDE channels up to 4 ATAPI devices<br>Onboard 1 x 40-pin & 1 x 44-pin IDE connectors                                                                             |
| <b>VGA Interface</b>        | VIA CN400 integrates S3 Graphics UniChrome Pro IGP graphics core<br>MPEG-II/MPEG-4 hardware accelerator integrated                                                                |
| <b>Video Memory</b>         | Up to 64MB shared with system memory                                                                                                                                              |
| <b>Serial ATA interface</b> | 2 x Serial ATA interface with 150MB/s transfer rate<br>RAID 0/1 supported                                                                                                         |
| <b>Audio Interface</b>      | VIA VT8237 integrates with VT1616 AC97 5.1CH codec                                                                                                                                |
| <b>DVI Interface</b>        | Optional onboard DVI interface                                                                                                                                                    |
| <b>TV-out Interface</b>     | Optional onboard SDTV/HDTV interface                                                                                                                                              |
| <b>LVDS Interface</b>       | Optional 18/24-bit LVDS interface with Mini-AGP add-on card                                                                                                                       |
| <b>LAN Interface</b>        | 1 x VIA VT6103 10/100Mbps PHY<br>1 x REALTEK 8100B 10/100Mbps PCI controller                                                                                                      |
| <b>Solid State Disk</b>     | IDE1 supports DiskOnModule with +5V power supply<br>1 x Compact Flash Type-II socket                                                                                              |
| <b>GPIO interface</b>       | Onboard programmable 8-bit Digital I/O interface                                                                                                                                  |
| <b>Extended Interface</b>   | 1 x Onboard PCI slot<br>1 x optional Mini-AGP socket                                                                                                                              |
| <b>External I/O Port</b>    | 2 x RJ45 LAN ports, 1 x DB15 VGA port and 1 x PS/2 Keyboard/Mouse Port,<br>2 x RS232 Serial Ports, 2 x IEEE1394 ports, 4 x USB2.0 ports                                           |
| <b>External Audio Port</b>  | Line-out/Front, Line-in/Rear and MIC-in/Center                                                                                                                                    |

|                              |                                                                    |
|------------------------------|--------------------------------------------------------------------|
| <b>Internal I/O ports</b>    | 1 x Slim type FDD, 1 x IEEE1394, 2 x USB2.0, 2 x RS232, 1 x SP/DIF |
| <b>Power Requirement</b>     | Standard 20-pin ATX power supply                                   |
| <b>Board Dimension</b>       | 170mm x 170 mm (L x W)                                             |
| <b>Operation Temperature</b> | 0 ~ 60 °C (32 ~ 140 °F)                                            |

## Cable Kit



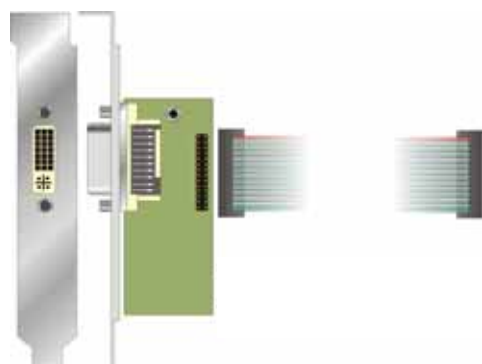
40-pin ATA100 IDE flat cable x 1



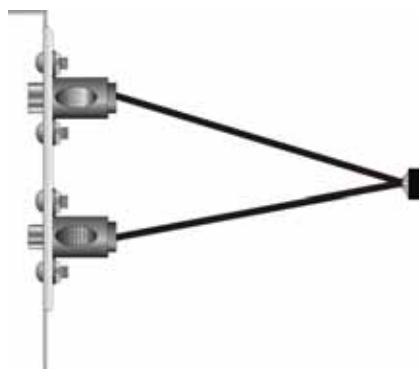
26-pin slim type floppy cable x 1



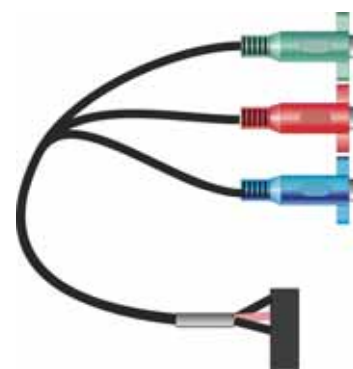
Serial ATA ribbon cable x 1



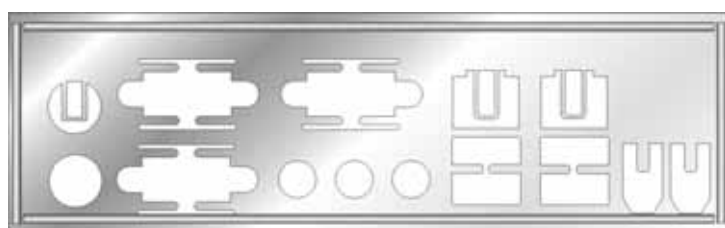
DVI output cable kit (LV-667D only)



SDTV cable x 1 (LV-667T only)



YPrPb cable x 1 (LV-667T only)



I/O Shield x 1

## Ordering Code

|                  |                                                                                                          |
|------------------|----------------------------------------------------------------------------------------------------------|
| <b>LV-667</b>    | VIA CN400 with Embedded C3 1.0GHz, VGA, SATA, 5.1CH Audio, CF, PCI, 4 x RS232, Dual LAN, <b>Mini-AGP</b> |
| <b>LV-667D</b>   | VIA CN400 with Embedded C3 1.0GHz, VGA, SATA, 5.1CH Audio, CF, PCI, 4 x RS232, Dual LAN, <b>DVI</b>      |
| <b>LV-667T</b>   | VIA CN400 with Embedded C3 1.0GHz, VGA, SATA, 5.1CH Audio, CF, PCI, 4 x RS232, Dual LAN, <b>HDTV</b>     |
| <b>LV-667E8</b>  | Same with LV-667 but with embedded Eden ESP8000 processor (Fanless)                                      |
| <b>LV-667E8D</b> | Same with LV-667D but with embedded Eden ESP8000 processor (Fanless)                                     |
| <b>LV-667E8T</b> | Same with LV-667T but with embedded Eden ESP8000 processor (Fanless)                                     |
| <b>MA-ATI</b>    | AGP 8x graphic card with ATI M10 GPU, 64MB DDR VRAM for Mini-AGP                                         |
| <b>MA-1631X</b>  | 18/24-bit LVDS add-on card for Mini-AGP                                                                  |

For further product information please visit the website at <http://www.commell.com.tw>

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