

# Industrial Single Board Computer

Intel Pentium 4 Mobile & LVDS Mini-ITX Solution



## LV-670M

**Mini-FlexATX / Mini-ITX Embedded Motherboard**  
**Mobile Intel Pentium 4 Processor -M**  
**Intel Extreme Graphics, 24-bit Dual Channel LVDS**  
**Intel PRO/100+ LAN, 5.1-CH & SPDIF Audio**  
**TV-out, Hi-Speed USB 2.0, IEEE 1394 Interfaces**



<b>Form Factor</b>	Mini-FlexATX (Mini-ITX), 170 x 170 mm (W x L)
<b>CPU</b>	Socket 478 Intel Mobil Pentium 4-M CPU up to 2.5GHz @ 400 MHz FSB On-die 512KB L2 cache, Micro-FCPGA package, <b>FAN FREE OPERATION</b> Intel Netburst Micro-architecture
<b>Memory</b>	One 184-pin DIMM socket supports up to 1 GB DDR200/266/333 SDRAM
<b>Chipset</b>	Intel Brookdale-GV chipset with 82845GV GMCH and 82801DB ICH4
<b>Watchdog Timer</b>	Generates NMI or system reset with 1 to 255 sec. / min. of time out value
<b>Expansive Interface</b>	1 x PCI slot supports up to 2 x PCI bus master of add-on cards with riser card
<b>PCI Enhanced IDE</b>	One 40-pin primary and one 44-pin secondary UltraATA/100 IDE interfaces
<b>VGA Interface</b>	Intel 845GV GMCH built Intel Extreme Graphics with 266 MHz VGA core, Intel Dynamic Video Memory up to 64MB shared with system memory
<b>LVDS LCD Interface</b>	Chrontel CH7011 built-in LVDS transmitter up to 1600x1200 of resolution Support 24-bit Dual channel LVDS interface for TFT LCD flat panel
<b>TV-out Interface</b>	Chrontel CH7017A built-in TV-out encoder with AV and S-Video output
<b>LAN Interface</b>	Intel PRO/100+ LAN with Intel ICH4 and 82562ET phy
<b>Hi-Speed USB 2.0</b>	Intel ICH4 built-in Hi-Speed USB 2.0 interface with up to 480 Mbps of data transfer rate
<b>IEEE 1394</b>	Agere FW323 IEEE 1394 controller with 100/200/400 Mbps of data transfer rate
<b>Audio Interface</b>	Intel ICH4 with ACL650 AC97 3D audio codec with 5.1 channel, line-in, line-out, Mic-in, CD-in and SPDIF interface
<b>Multi-I/O Port</b>	1 x COM, 1 x parallel, 4 USB 2.0, 1 x IrDA, 1 x FDD, 1 x PS/2 keyboard and mouse port
<b>External I/O Panel</b>	PS/2 keyboard and mouse port AV/S-video TV-out, VGA, LPT port Dual USB 2.0, LAN port IEEE 1394, Audio line-in, line-out, mic-in, SPDIF
<b>Solid State Disk</b>	DiskOnModule IDE-based, bootable, driver free flash disk with up to 512 MB of capacity M-systems DiskOnChip IDE Pro with TrueFFS and ECC/EDC data protection
<b>Environment</b>	Power Requirement: ATX power connector Board Dimension (W x L): 170 x 170 mm. Standard Mini-FlexATX form Factor Operation Temperature: 0 ~ 60°C (32 ~ 140°F)
<b>Ordering Code</b>	<b>LV-670M</b> Mini-ITX Mobile Intel Pentium 4-M Embedded Motherboard with LVDS, VGA, LAN, Audio, USB 2.0, IEEE 1394, TV-out interface (without Pre-installed Mobile Intel Pentium 4 CPU)

Online product information detail and updates are available at: <http://www.commell.com.tw>

### COMMELL IPC Division, Taiwan Commate Computer Inc.

8F, No. 94, Sec. 1, Shin Tai Wu Rd., Hsi Chih, Taipei Shien, Taiwan  
TEL : +886-2-26963909 Website: <http://www.commell.com.tw>  
FAX : +886-2-26963911 E-mail : [info@commell.com.tw](mailto:info@commell.com.tw)

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[www.commell.com.tw](http://www.commell.com.tw)