

**TM-S630LM**  
**All-In-One Mainboard**

Version: 1.0

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## Overview

The TM-S630LM is a PPGA-Celeron & CuMine FC-PGA based All-In-One mainboard that utilizes SiS 630 chipset, a high level of integrated function. Aside from supporting new architectures such as high speed AGP x4 graphic port, ATA/66 Bus Master IDE, this mainboard integrated a 3D 128-bit AGP Graphics, 10BaseT/100BaseTX LAN, PCI 3D Sound and a V.90 Fax/Modem Module.

There is a special feature from this SiS mainboard is the optional ADIMM slot onboard for either an optional **Video Bridge Card** or a **Display Buffer Cache Card**. The Video Bridge Card allows to connect an external TV, a TFT LCD Panel or a secondary CRT display monitor.

In addition to above features, this mainboard onboard a full set of ATX I/O ports such as CPU fan monitoring, System voltage monitoring, Over current protection, Modem Wake Up, Keyboard Power On, PS/2 Mouse Power On and 2 USB ports. Two extra USB ports can be available through the connection of extended USB module to the mainboard.

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## Introduction

### Specifications

<b>System Chipset</b>	SiS 630E Chipset
<b>CPU</b>	Intel PPGA-Celeron processors, support 266/300/333/366/400/433/466/500/533 (Ex. Clk 66 MHz); CuMine FC-PGA 450/500/550/ 600/ 650/ 700/750/ 800 (Ex. Clk 100 MHz); CuMine FC-PGA 533/600/667/733/800/866/933 (Ex.Clk 133 MHz) CPU.
<b>Memory</b>	Expandable to 512MB (2 banks) with two 168-pin DIMM socket support 3.3 V SDRAM 66/100 &133.
<b>IDE</b>	Primary and Secondary PCI IDE channels. Support PIO, Multiword DMA, Bus Mastering and Ultra DMA 33/66 modes.
<b>Graphic On Board</b>	AGP 128 bit 2D/3D 100 MHz AGP Graphics complies with AGP V2.0. Shared memory architecture allows a 64MB max. frame buffer. Supports high resolutions up to 1920x1200 16M colors, up to 2048x2048 Texture size and Virtual screen up to 4096x4096. Supports hardware DVD Accelerator.
<b>Sound On Board</b>	3D PCI Sound Pro, meets PC98 Spec. 16-bit CODEC for full-duplex playback and record. HRTF professional Audio supports both Direct Sound 3D and Aureal's 3D compatible interface plus support for 4-channel speakers out. Software Wave-Table Synthesizer and Digital Audio Interface(SDPIF) In/Out with 24-bit, 48 KHz sample rate and measured 120db Audio quality. Built-in 32 ohm earphone buffer and 3D surround sound. Provides MPU-401 Game/MIDI port and legacy Sound Blaster 16 support. Stereo Mixer supports analog mixing from CD-Audio and Line In or digital mixing from voice, FM/Wave-Table and digital CD-Audio. Driver support for MS-DOS, Microsoft Windows 95/98/2000/NT 4.0.
<b>LAN On Board</b>	10 BaseT/100BaseTX Ethernet LAN. Supports IEEE 802.3u 100Base-TX, 10Base-T and ANSI x3.263 TP-PMD physical sub-layer. Wake On LAN.
<b>Fax/Modem On Board</b>	56K Fax/Modem, supports V.90 standard for Internet communication. Supports Auto Fallback and MNP5, V.42bis data compression.
<b>I/O</b>	PC99 Color Connectors, 2 x PS/2 Mouse and Mouse Ports, 2xUSB, 1x VGA port. 1x Serial Port with 16550-compatible fast UART. 1x Parallel with ECP and EPP. 1x Infrared port, 2 x USB external connectors.
<b>Power Management</b>	ATX Power Supply, Suspend, Shutdown, Wake Up On LAN, Wake On Modem, Wake On Alarm, Interrupt Wake Up from Keyboard/Mouse.

<b>System Monitor</b>	Keyboard Power On/Off. Supports CPU Temperature Voltage and Fan Speed monitor.
<b>Expansion slots</b>	2 x PCI 32-bit port.
<b>Voltage</b>	Auto
<b>Dimension</b>	4-layer PCB, size (244mm x 190mm).
<b>Package Content</b>	<ul style="list-style-type: none"><li>• Mainboard</li><li>• Manual</li><li>• 1x FDD, 1xDMA33/66 Cables</li><li>• Fax/Modem DAA Module</li><li>• 1 x CD diskette</li></ul>

### ADIMM slot

**ADIMM** slot is for installation of Video Bridge Card or Display Cache Module.

**SiS301 Video Bridge Card** supports NTSC/PAL TV display, **TFT LCD Panel** display or a **analog RGB** port for a secondary CRT monitor. All these functions are able to dual-Display simultaneously. Additionally, the secondary display can work on its own resolutions, color depths and frame rates apart from the primary display.

**Display Cache Module** supports 8-32 MB.

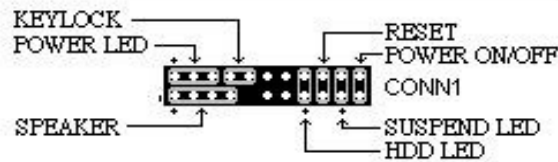
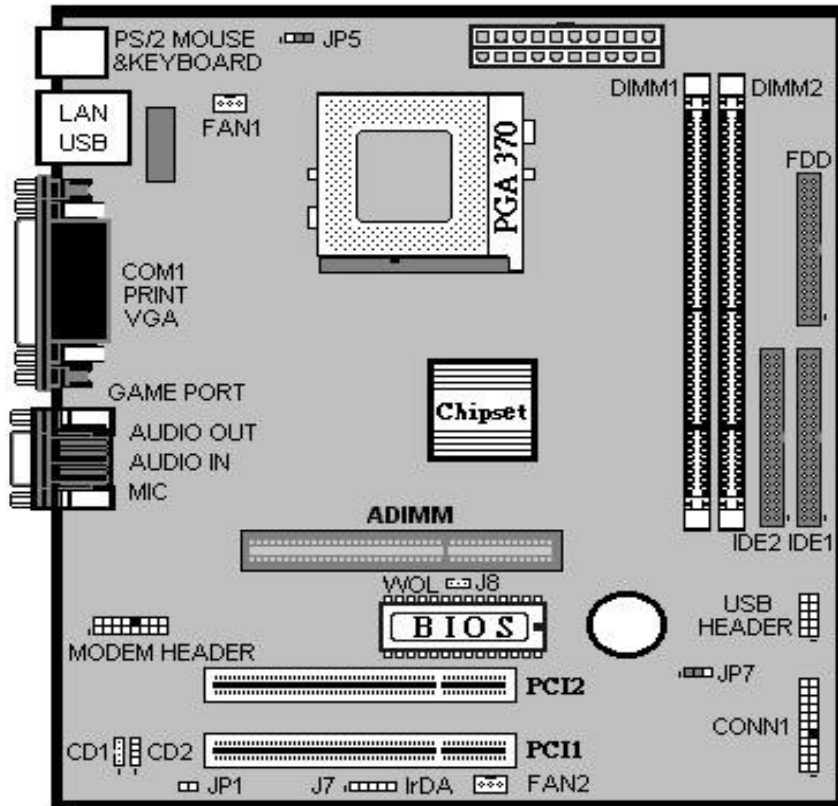
### Optional Accessories

**Following devices for option to fit in this mainboard:**

- **USB Module:** for extending 2 extra USB Ports.
- **SiS 301 Video Bridge Card :** For an external TV, LCD panel or secondary CRT monitor.
- **Display Buffer Cache Card :** 8-32MB.

# Setup Guide

## A.Layout Diagram



## B. Jumper Settings

When put a jumper cap on two pins to short, we name it **ON**. When remove jumper cap from two pins or just put on one pin, we name it **OFF**.

- **JP1 : Enable or Disable Modem & Audio System**

JP1	
Pin 1-2 On	Disable Onboard Fax/Modem
Pin 1-2 Off	Enable Onboard Fax/Modem

- **JP5 : To Enable/Disable Keyboard Power On Function.**

When enable Keyboard Power On function, you are able to Power On/Off system by striking “Alt + Ctrl + ” simultaneously. However, the power supply of the system must provide minimum 750mA on the +5VSB (+5V Standby) for working normally. Additionally, Keyboard Power On is only function from the second Power On.

JP5	
Pin 1-2 On	Disable Keyboard Power On
Pin 2-3 On	Enable Keyboard Power On

- **JP7 : Clear CMOS Memory**

JP7	
Pin 1-2 On	Normal Operation
Pin 2-3 On	Clear CMOS Memory

**Notice :**

1. Please avoid to do “**Clear CMOS**” and “**Re-Flash BIOS**” simultaneously.
2. Once you done above operation, the original **LAN ID** will get lost so that be sure to re-program **LAN ID** as follows:

Find the programming utility of “**EE.ZIP**” from the CD Driver (\LAN\SiS900\Utility) and unzipping it. For detail operation, Just refer to **README.TXT** file.