

Embedded Solution

Car PC application

Car PC

Networking

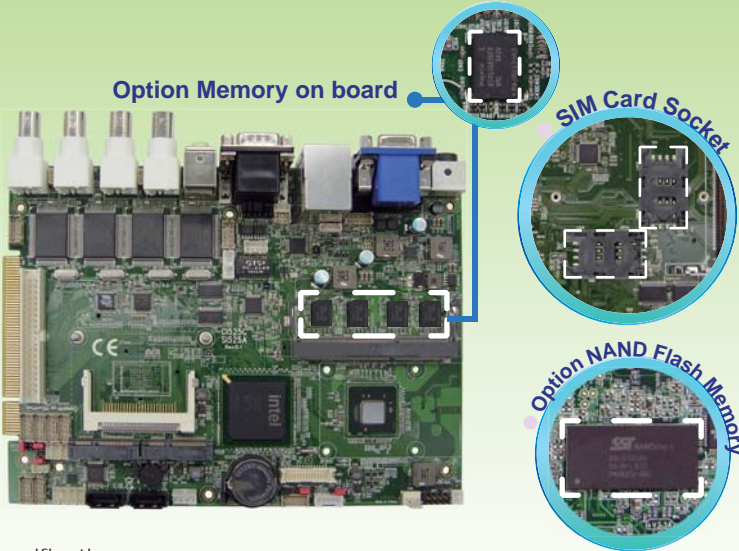
POS / Automation

DVR

Digital Signage / Thin Client

Embedded System

Panel PC



SI525AW Series

Application
 Embedded Car PC / POS / ATM / Kiosk / VOD / VCR /
 DVR / Video Capture server / Security application

Features



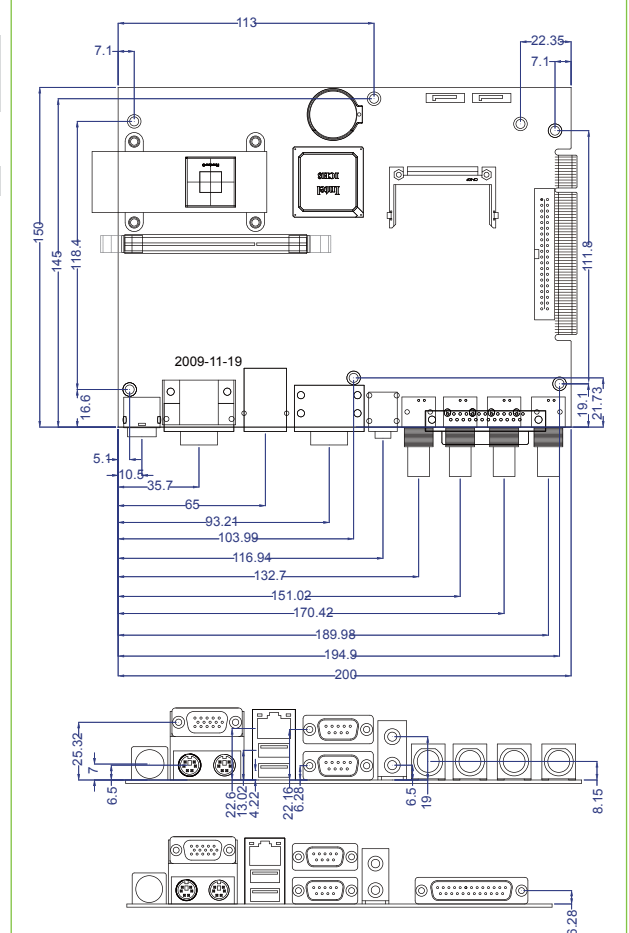
Specifications

MODEL	SI525AW Series
CPU Type	Intel Atom D525 1.8 GHz (Dual core processor)
MB Chipset	Intel Atom D525 + ICH8M (82801 HBM)
BIOS	Award BIOS
Graphics	Intel Luna Pier Refresh Pineview-D Integrated Graphics Engine
LVDS	Data format of 18 bits
System Memory	1 x DDR3 SO-DIMM socket (max. 4GB) or On board DDR3 SDRAM 1GB and 1 x DDR3 SO-DIMM socket (max. 2GB)
NAND Flash Memory	CF Card Type 2 socket for ATA interface On board SSD 2 / 4 / 8 GBytes (option)
IDE	Ultra ATA 100 / 66 / 33, 1 x 40pin 2.54mm
SATA	2 x SATA ports
Audio	Intel HD Audio Specification Rev. 1.0 Compliant
LAN	1 x Realtek RLT8111DL or Intel 82583V / 82574L 10/100/1000 Mbps (option)
IO Function	1 x RS232 or 485 (option) + 1 x RS232 / 422 / 485 or 4 x RS422 or 485 (option) PS/2 keyboard & mouse
USB	1 or 4 Conexant CX25878 chip/s for 4~16 ports video-in
Video-in	8 x USB 2.0 (2 external + 6 internal)
Audio Amplifier (option)	Two channels Audio Amplifier 6W/CH Class-D operation into an 8-Ω Load from a 12-V Supply
Touch Screen (option)	USB interface Touch screen controller Support 4-, 5-, 8- wire Analog Resistive Touch screen USB 1.1 full speed sample rate maximum of 300 point / sec Resolution : 2048 x 2048
DIO & WDT	Hardware digital Input & Output, 8 x DI / 8 x DO Hardware Watch Dog Timer, 0~255 sec programmable
Expansion Interface	1 x Mini PCI socket, 1 x PCI gold finger 2 x PCIe mini card for PCIe & USB interface 2 x 3G SIM card sockets
Power	On board DC +12V ± 5% convert to +3.3V / +5V / +12V for system or Wide range DC-IN from +6V to +36V (option)
Dimension	200 x 150 mm
Operation Temperature	0 ~ 60 °C
Operation Humidity	5 ~ 95% @ 60 °C, non-condensing

Ordering Information

- SI525A-4T-000-00 1 Chip (Techwell TW6816) with 4 Ports Video-in channels
- SI525A-4U-000-00 4 Chips (Conexant CX25878) with 4 Ports Video-in channels
- SI525A-4S-000-00 4 Chips (Conexant CX25878) with 16 Ports Video-in channels

Dimension



Testing environment
 Model name: SI525A-4U-000-00
 CPU: Intel Atom D525 1.8 GHz
 Chipset: Intel Atom D525 + ICH8M
 OS: WIN XP
 Testing Program: 3D Mark 2001

Fanless solution with CF card			
Chassis	NEO	TINO	TWISTER
Temperature			
0°C~50°C	Pass	Pass	Pass
60°C	Pass	Pass	Pass
Fanless solution with 2.5" HDD			
Chassis	NEO	TINO	TWISTER
Temperature			
0°C~45°C	Pass	Pass	Pass
50°C	Pass	Pass	Pass

Please upgrade the hard drive to industrial grade for better temperature performance.

Back Panel

