

# Military, Aerospace and Government Business Unit

## Features

- “3 MCU” Form Factor
- Intel® Core™2 Duo / Core™
- 1.0GHz - 2.16GHz
- PC 104+ Architecture
- Power Management
- 256MB - 2048MB DDR2-DRAM
- CRT / LCD interface on-board
- 1x 10/100 Base-T LAN-Ethernet
- 1x 1000 Base-T LAN-Ethernet
- 8x USB2.0 Ports
- PATA Hard Disk Interface
- COM1, COM2, LPT1
- RTC and Watchdog Timer
- Non Volatile Setup Save
- Single 5VDC Power Supply
- 2X Removable SATA
- -25°C to +60°C

The **Operator Work Station** (OWS) is based on a “3 MCU” form Factor. The system utilizes an Intel® Core™2 Duo /Core™Duo / Core™Solo Processors, with clock Speeds up to 2.16GHz, and the Intel® 945GM chipset,

The Intel® Generation 3.5 graphics engine is Integrated into the chipset, along with the Intel® Graphics Media Accelerator 950 (Intel® GMA 950), and can drive either a CRT and/or LVDS LCD. The memory is added by way of a SODIMM200 socket and can accept up to two Gigabytes of DDR2 DRAM. The OWS945PC power management incorporates ACPI/APM functions. The standard OWS945PC also incorporates PCI/104E Bus, EIDE, 4xUSB 2.0, 2xRS232 COM ports, PS/2 Keyboard and Mouse, parallel printer, AC97 Sound, separate 10/100Mbit and Gigabit LAN, and more. ADL offers highly effective active and passive cooling solutions based on proven thermal data and mounting techniques; resulting in the least possible mechanical board stress.

Please contact our Sales Engineers for detailed information on cooling solutions to fit your needs.



## Processor and Memory Options:

<u>CPU Solutions</u>	<u>Description</u>
SVT945PC-T7400	Dual Core (2) 2.16GHz, 4M cache
SVT945PC-L2400	Dual Core 1.66GHz, 2M cache
SVT945PC-U2500	Dual Core 1.2GHz, 2M cache
SVT945PC-440CM	Single Core 1.86GHz, 1M cache
SVT945PC-423CM	Single Core 1.07GHz, 1M cache*
SVTS15PC-110	PC104/Plus Atom 1.1GHz 0GB SSD
SVTS15PC-114	PC104/Plus Atom 1.1GHz 4GB SSD
SVTS15PC-160	PC104/Plus Atom 1.60GHz 0GB SSD
SVTS15PC-164	PC104/Plus Atom 1.60GHz 4GB SSD

\* Long lead-time may apply to this item

<u>Cooling Solutions</u>	
ADLTS2Pipe	Chassis-mounted Heat pipe
ADLTS2HSS-Fan	Fan heat sink

\*Other options may be available

<u>Standard DDR-RAM</u>	
DDR2-DRAM512	512MB 666MHz SODIMM
DDR2-DRAM1024	1024MB 666MHz SODIMM
DDR2-DRAM2048	2048MB 666MHz SODIMM

<u>DDR2-RAM Ext. Temp</u> (-40°C - +85°C)	
DDR2-DRAM512-EX	915/945DDR2 512M/667MHz
DDR2-DRAM1024-EX	915/945DDR2 1.0GB/667MHz
DDR2-DRAM2048-EX	915/945DDR2 2.0GB/667MHz



# Military, Aerospace and Government Business Unit

## SYSTEM SPECIFICATIONS

FEATURES	FUNCTIONS	REMARKS	OPTIONS
Processor/CPU:	Intel® Core™2 Duo / Core™Duo / Core™Solo		Intel® Atom TM Z5XX
L2-Cache:	2MB / 4MB	CPU dependent	
Front Side Bus:	533/667 MHz	CPU dependent	U2500 - 533FSB / L2400, L7400, T7400 - 667FSB
CPU-Clock:	1.07GHz - 2.16GHz		
Memory 200pin DDR2 SODIMM:	256MB* - 2048MB	*256MB available by special request	
Video Controller:	945GM integrated Gen 3.5 engine	Intel® Graphics Media Accelerator 950	
Video Memory:	8MB UMA / 224MB DVMT		
Video Interfaces:	VGA-Analog, CRT, LVDS		
Video Channel 1:	2048 x 1536		
Video Channel 2:	1600 x 1200		
Real Time Clock:	Yes	External Battery Required for RTC	
LAN-Controller:	INTEL – ICH7M – ext. PHY 82562GZ	Intel 573E for 10/100/1000	Dual GigE Fiber
AC97-Controller:	INTEL – ICH7M – AC97 V2.3	ALC655 Codec 5.1 Sound	
SMBus-Controller:	INTEL – ICH7M – SMBus		
USB2-Controller:	8 Ports V2.0		Extended 25 Meters
Flash BIOS:	512KB		
BIOS:	Award		
Power Management Control:	ACPI / APM		
EIDE-Controller:	PIO 1-4, UDMA 100*/66*/33 as well as SATA1/2	Primary Master/Slave	
Storage	Removable SATA 120 Gig Hard Drive		Solid State 80 Gig
HW-Monitor:	Winbond W83627HF		
Audio Output:	Stereo Output and SPDif	5.1 Support	
Audio Input:	Stereo-Line, Mic and SPDif		
Keyboard:	PS/2-USB		
Mouse:	PS/2-USB		
COM1:	RS232		
COM2:	RS232		
LPT1:	Uni/ECP/EPP	Shared with FDC	
Connector Interface	ARNIC 600 Series Connector		Mil-Std 38999
Floppy Disk:	Available	Shared LPT port	External
PCI-Bus:	V2.2	Support For 4 Masters	Spec: PC/104 Plus V2.0
Power Supply:	+28 VDC		12 VDC or 110/220 Vac 60/400 Hz
Power consumption:	2.5 Amps - 11 Amps max @ +5V		
Power UPS			Ultra Cap 30 Second Holdup
Remote Status Power			Remote Status Indicator
EMI/RFI	Do160e - Mil-Std 461F		Tempest Level 1 Pwr/Level II Data
Shock/Vibration	Do160e Fixed Wing		DO 160e Rotary
Operating Temperature:	-25 °C to +60 °C		-40 °C to +85 °C available upon request

