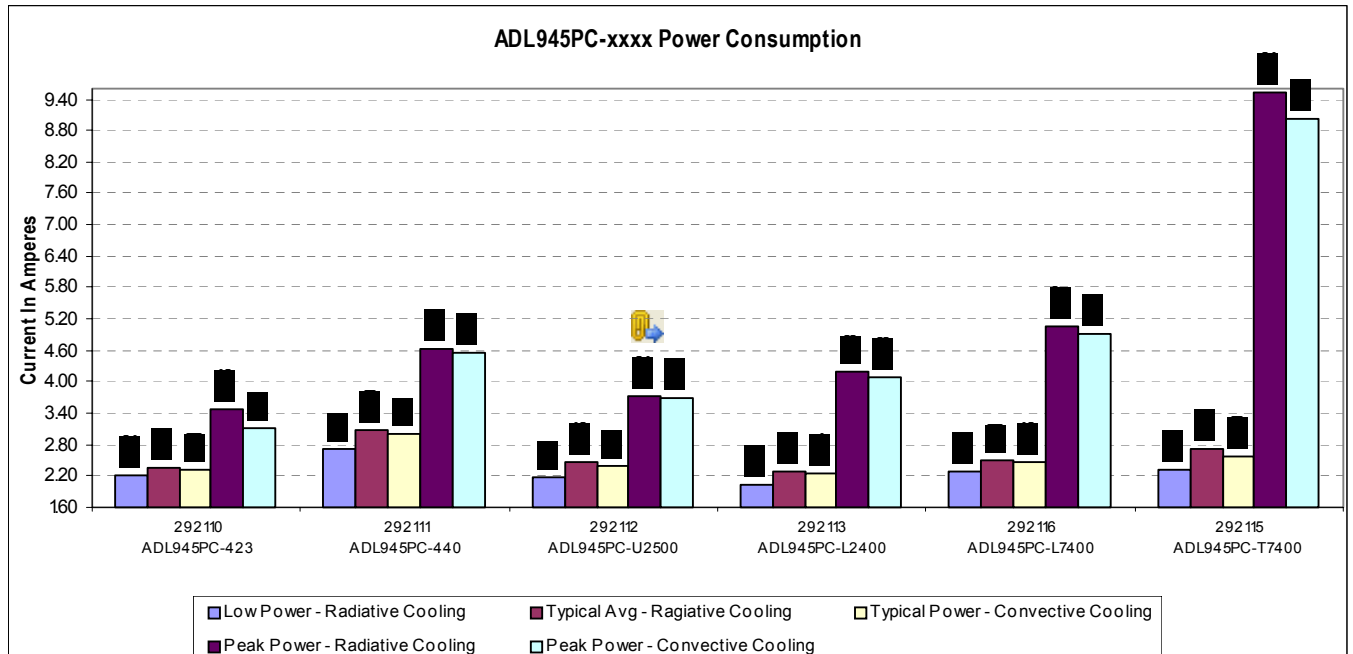




ADL945PC-xxxx Power Consumption

| | ADL945PC-xxxx | | | | | |
|----------------------------------|------------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Low Power - Radiative Cooling | 2.22 | 2.71 | 2.18 | 2.03 | 2.28 | 2.32 |
| Peak Power - Radiative Cooling | 3.46 | 4.63 | 3.72 | 4.18 | 5.07 | 9.52 |
| Typical Avg - Radiative Cooling | 2.34 | 3.09 | 2.46 | 2.27 | 2.51 | 2.70 |
| Peak Power - Convective Cooling | 3.13 | 4.56 | 3.70 | 4.08 | 4.93 | 9.02 |
| Typical Avg - Convective Cooling | 2.31 | 3.01 | 2.41 | 2.24 | 2.46 | 2.59 |
| | 292110 ADL945PC-423 | 292111 ADL945PC-440 | 292112 ADL945PC-U2500 | 292113 ADL945PC-L2400 | 292116 ADL945PC-L7400 | 292115 ADL945PC-T7400 |



*Your results may vary, based on loading and platform. FOR REFERENCE ONLY.

The Numbers by Definition

The chart above uses standardized testing configurations to provide **baseline** power consumption data for the purpose power budget estimation. While the numbers listed here are accurate they represent values for a given configuration under specific conditions. Actual values will vary based on configuration, peripherals and operating system.

“Board Only” numbers have been recorded for baseline purposes under a standardized configuration.

“Typical” power consumption values are intended to offer realistic numbers that one might expect under a load with standard peripherals attached, and basic operating system functions being performed.

To calculate wattage (W), multiply source voltage (V) by the amperage (I) from the chart (VI) = W

Data subject to change without notice



ADL945PC-xxxx Power Consumption

Low Power – Passive Cooling Solution, Board only

Hardware Configuration

- 292110 - ADL945PC-423
- 292111 - ADL945PC-440
- 292112 - ADL945PC-U2500
- 292113 - ADL945PC-L2400
- 292115 - ADL945PC-L7400
- 292116 - ADL945PC-T7400
- 292054 - ADLTS2HSS - Two Piece Heatsink set
- XP Pro SP3
- 994023 - 1024 333MHz DDR SDRAM
- No Keyboard
- No Mouse

Test Configuration

- Microsoft Windows XP Pro (SP3): Power Mode Set To Max Battery, Always On
- Microsoft Windows XP Pro (SP3): No screen saver
- Microsoft Windows XP Pro (SP3): 1024 x 768 x 32bpp display settings
- No additional Device Drivers installed



Test Equipment

- FLUKE Industrial True RMS Multimeter Model: 87 V
- OMEGA AC/DC Current Probe, Model HHM72
- FLUKE Temperature Probe, Model 80BK
- XANTREX 40-21 Benchtop 0-40 VDC / 0-21 Amp Variable Power Source, calibrated to +5.00VDC output

Test

- The test system was configured as above. Ambient air circulation was introduced via an external fan. The board was booted to the Windows Desktop with no additional windows or applications open or running.
- The +5VDC current was measured using an Ammeter (Amp Clamp) connected to a Fluke 87 V Multimeter. With no peripheral devices connected, the current consumption reflects BOARD ONLY usage. The test was repeated six times with the ADL945PC board model being the only variable within the test setup. The highest recorded current was each time captured under these conditions.

Peak Power – Passive Cooling Solution, Board Only

Hardware Configuration

- 292110 - ADL945PC-423
- 292111 - ADL945PC-440
- 292112 - ADL945PC-U2500
- 292113 - ADL945PC-L2400
- 292115 - ADL945PC-L7400
- 292116 - ADL945PC-T7400
- 292054 - ADLTS2HSS - Two Piece Heatsink set
- 994023 – 1024MB 333MHz DDR SDRAM
- XP Pro SP3
- No Keyboard
- No Mouse

Data subject to change without notice



ADL945PC-xxxx Power Consumption

Peak Power – Passive Cooling Solution, Board Only (cont.)

Test Configuration

- Microsoft Windows XP (SP3): Power Mode Set To Max Battery, Always On
- Microsoft Windows XP (SP3): No screen saver
- Microsoft Windows XP (SP3): 1024 x 768 x 32bpp display settings
- No additional Device Drivers installed
- SiSandra 2007 - Cache and Memory Test via the Burn-In Wizard

Test Equipment

- FLUKE Industrial True RMS Multimeter Model: 87 V
- OMEGA AC/DC Current Probe, Model HHM72
- FLUKE Temperature Probe, Model 80BK
- XANTREX 40-21 Benchtop 0-40 VDC / 0-21 Amp Variable Power Source, calibrated to +5.00VDC output

Test

- The test system was configured as above. Ambient air circulation was removed and the board was booted to Windows Desktop. The passive heatsink was allowed to equalize to +40 degrees above ambient (22 - 24° C). The input power was measured and verified to be at a solid 5.00 VDC. The processor and memory were loaded using SiSandra Cache and Memory test, and the mouse was disconnected.
- The +5VDC current was measured using an Ammeter (Amp Clamp) connected to a Fluke 87 V Multimeter. With no peripheral devices connected, the current consumption reflects BOARD ONLY usage. The test was repeated six times with the ADL945PC board model being the only variable within the test setup. The highest recorded current was each time captured under these conditions.

Peak Power – Active Cooling Solution, Board Only

Hardware Configuration

- 292110 - ADL945PC-423
- 292111 - ADL945PC-440
- 292112 - ADL945PC-U2500
- 292113 - ADL945PC-L2400
- 292115 - ADL945PC-L7400
- 292116 - ADL945PC-T7400
- 292054 - ADLTS2HSS - Two Piece Heatsink set
- 994023 – 1024MB 333MHz DDR SDRAM
- XP Pro SP3
- No Keyboard
- No Mouse

Test Configuration

- Microsoft Windows XP Pro (SP3): Power Mode Set To Max Battery, Always On
- Microsoft Windows XP Pro (SP3): No screen saver
- Microsoft Windows XP Pro (SP3): 1024 x 768 x 32bpp display settings
- ADL945PC Device Driver package installed
- SiSandra 2007 – Cache and Memory Test via the Burn-In Wizard

Data subject to change without notice



ADL945PC-xxxx Power Consumption

Peak Power – Active Cooling Solution, Board Only (cont.)

Test Equipment

- FLUKE Industrial True RMS Multimeter Model: 87 V
- OMEGA AC/DC Current Probe, Model HHM72
- FLUKE Temperature Probe, Model 80BK
- XANTREX 40-21 Benchtop 0-40 VDC / 0-21 Amp Variable Power Source, calibrated to +5.00VDC output

Test

- The test system was configured as above. Forced air was applied to the heatsink with an external fan and the board was booted to Windows Desktop. The heatsink was allowed to equalize to 8 degrees above ambient (22 - 24° C). The processor and memory were loaded using SiSandra Cache and Memory test, and the mouse was disconnected.
- The +5VDC current was measured using an Ammeter (Amp Clamp) connected to a Fluke 87 V Multimeter. With no peripheral devices connected, the current consumption reflects BOARD ONLY usage. The test was repeated six times with the ADL945PC board model being the only variable within the test setup. The highest recorded current was each time captured under these conditions.

Typical Power Consumption Average, Passive Cooling.

Hardware Configuration

- 292110 - ADL945PC-423
- 292111 - ADL945PC-440
- 292112 - ADL945PC-U2500
- 292113 - ADL945PC-L2400
- 292115 - ADL945PC-L7400
- 292116 - ADL945PC-T7400
- 292054 - ADLTS2HSS - Two Piece Heatsink set
- 994023 – 1024MB 333MHz DDR SDRAM
- Active VGA port 1024 x 768 x 32bpp
- Gigabit Ethernet connected to Gigabit LAN
- DYNEX PS/2 Keyboard, Model: DX-KBWM2
- ATIVA PS/2 Optical Mouse, Model: 406130
- SEAGATE 80GB 2.5" PATA HDD, Model: ST980817AM (Boot Drive)
- ATIVA 2GB USB Flash connected to USB1
- MEMOREX USB CD-RW, Model: MRX523252AJEL-1
- Operating System: Microsoft Windows XP Pro (SP3)



Test Configuration

- Microsoft Windows XP Pro (SP3): Internet Explorer - Open Internet connection established and active (connected at 1Gbit)
- Microsoft Windows XP Pro (SP3): Word Pad open
- Microsoft Windows XP Pro (SP3): Display Properties Open
- Microsoft Windows XP Pro (SP3): Performance Monitor Open and Active
- Microsoft Windows XP Pro (SP3): Power Profile set to "Home/Office" (Maximum)
- Microsoft Windows XP Pro (SP3): 1024 x 768 x 32bpp display settings
- All device drivers loaded

Test Equipment

- FLUKE Industrial True RMS Multimeter Model: 87 V
- OMEGA AC/DC Current Probe, Model HHM72

Data subject to change without notice



ADL945PC-xxxx Power Consumption

Typical Power Consumption Average, Passive Cooling (cont.)


- FLUKE Temperature Probe, Model 80BK
- XANTREX 40-21 Benchtop 0-40 VDC / 0-21 Amp Variable Power Source, calibrated to +5.00VDC output

Test

- The test system was configured as above. Ambient air circulation was removed and the board was booted to Windows Desktop. The passively cooled board was allowed to thermally equalize to +40 degrees above ambient (22 - 24° C). The input power was measured and verified to be at a solid 5.00 VDC.
- The test system was booted to the XP desktop via the attached HDD. The described applications were opened. The current probe was attached to the +5VDC input power lines to monitor current draw. Current was measured and averaged for a period of 5 minutes. The test was repeated six times with the ADL945PC board model being the only variable within the test setup.

Typical Power Consumption Average, Active Cooling.

Hardware Configuration

- 292110 - ADL945PC-423
- 292111 - ADL945PC-440
- 292112 - ADL945PC-U2500
- 292113 - ADL945PC-L2400
- 292115 - ADL945PC-L7400 
- 292116 - ADL945PC-T7400
- 292054 - ADLTS2HSS - Two Piece Heatsink set
- 994023 - 1024MB 333MHz DDR SDRAM
- Active VGA port 1024 x 768 x 32bpp
- Gigabit Ethernet connected to Gigabit LAN
- DYNEX PS/2 Keyboard, Model: DX-KBWM2
- ATIVA PS/2 Optical Mouse, Model: 406130
- SEAGATE 80GB 2.5" PATA HDD, Model: ST980817AM (Boot Drive)
- ATIVA 2GB USB Flash connected to USB1
- MEMOREX USB CD-RW, Model: MRX523252AJEL-1
- Operating System: Microsoft Windows XP Pro (SP3)

Test Configuration

- Microsoft Windows XP Pro (SP3): Internet Explorer - Open Internet connection established and active (connected at 1Gbit)
- Microsoft Windows XP Pro (SP3): Word Pad open
- Microsoft Windows XP Pro (SP3): Display Properties Open
- Microsoft Windows XP Pro (SP3): Performance Monitor Open and Active
- Microsoft Windows XP Pro (SP3): Power Profile set to "Home/Office" (Maximum)
- Microsoft Windows XP Pro (SP3): 1024 x 768 x 32bpp display settings
- All device drivers loaded

Test Equipment

- FLUKE Industrial True RMS Multimeter Model: 87 V
- OMEGA AC/DC Current Probe, Model HHM72
- FLUKE Temperature Probe, Model 80BK
- XANTREX 40-21 Benchtop 0-40 VDC / 0-21 Amp Variable Power Source, calibrated to +5.00VDC output

Data subject to change without notice



ADL945PC-xxxx Power Consumption

Typical Power Consumption Average, Active Cooling (cont.)

Test

- The test system was configured as above. The board was booted to Windows Desktop. The actively cooled board was allowed to thermally equalize to +8 degrees above ambient (22 - 24° C). The input power was measured and verified to be at a solid 5.00 VDC.
- The test system was booted to the XP desktop via the attached HDD. The described applications were opened. The current probe was attached to the +5VDC input power lines to monitor current draw. Current was measured and averaged for a period of 5 minutes. The test was repeated six times with the ADL945PC board model being the only variable within the test setup.



Data subject to change without notice