



Marketing Document

Graphics Master Specifications

Page 1 of 3

MARKETING DIRECTOR (PRINTED)	SIGNATURE	DATE
FRED SALLOUM		12/8/00
MANUFACTURING DIRECTOR (PRINTED)	SIGNATURE	DATE
ROBERT DAVIS		12/18/00
CONFIGURATION MANAGER (PRINTED)	SIGNATURE	DATE
HEATHER WILSON		12/8/00
ENGINEERING DIRECTOR (PRINTED)	SIGNATURE	DATE
ALAIN G. PHILIPPE		12/8/2000

ADS "Graphics Master" USB host single board computer

The Graphics Master is a full-featured single board computer using the SA-1110 StrongARM RISC microprocessor and SA-1111 StrongARM companion chip. The Graphics Master includes one of the most comprehensive I/O peripheral combinations to meet the needs of embedded and graphical systems developers.

A typical **ADS Graphics Master** single board computer configuration would provide (list includes all options available):

Processors:

- 32-bit Digital StrongARM SA-1110 RISC processor
 - 250 (Dhrystone 2.1) MIPS @ 206 MHz
 - <450 mW @ 2.0V/206 MHz
 - Power and memory management functionality
- SA-1111 StrongARM companion chip, providing USB host functionality with 4 port hub

Graphics

- Video interface up to XGA (1024x1024) 8-bit color LCD controller (passive or active; 4,092 palette) : Backlight connector with PWM + ON/OFF controlled by software

Memory

- Program/Frame Buffer SDRAM 16, 32, 64 Mbytes,
- Flash Memory 8, 16, 32 Mbytes,
- 128 Kbytes of EPROM as a boot device,

Operating Environments

- Windows CE 2.12 or 3.0
- Linux
- OS-9
- VxWorks
- Supports JAVA™ with a RTOS

Comprehensive Communications

- Ethernet: 10BT (on-board)
- CAN 2.0b (on-board, available for CE)
- One (1) PCMCIA (Type II)
- One (1) Compact Flash (type II) connector
- Seven (7) Serial Ports:
 - COM1: RS232 (6 wires)
 - COM2: IrDA, RS232 or TTL
 - COM3: RS232 or RS485/422
 - COM 4-5: RS232 (8 wires)
 - COM 6-7: TTL (4 wires)
- On-board Codec:
 - touchscreen interface
 - 1 Speaker Output (100 mW)
 - 1 Microphone Input
 - 10 TTL Digital Software configurable Inputs/Outputs, 4 Analog Inputs (0-7.5V)

- ADSmartIO™:
 - 8x8 Keypad/Digital Touch screen + 6 Digital IOs or,
 - 8 Analog Inputs (0-2.5V) + 15 Digital IOs or,
 - 22 Digital IOs.
- PS2 Keyboard
- PS2 Mouse

Peripherals

- Real Time Clock
- 3 Software controlled LED status indicators, 4 configuration switches software readable

Dimensions, Power Requirement

- 5"x6-3/4"
- <2.5W
- Requires 5V/3.3V or 5V only

ADS: Application-Ready Embedded Solutions

Applied Data Systems (ADS) is a leading manufacturer of single board computers designed embedding in industries such as process control, medical instrumentation, environmental monitoring, fleet management, kiosks, and industrial automation equipment requiring flat panel displays. With 15 years of graphics hardware and software development experience, ADS uniquely delivers customized display connectivity and network communications. Applied Data Systems is headquartered in Columbia, Maryland, USA.