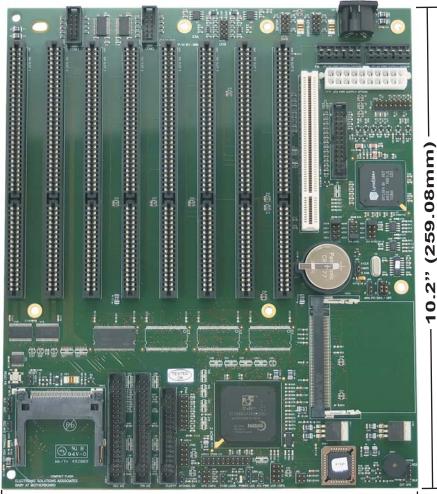


Computers Engineered For Industry.



8.6" (218.44mm)

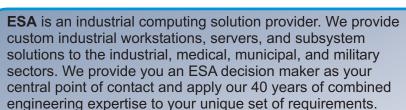
ORDERING INFORMATION:

ESA-486AVR-008 – 8MB Memory

ESA-486AVR-032 – 32MB Memory

ESA-486AVR-128 – 128MB Memory

CABLE-ESA9 – Video cable and bracket sold separately



ESA's industrial motherboards include 486 AT legacy, ATX, single board computers (SBCs), and backplanes. As engineers, we understand the need for long life boards with robust components.

Electronic Solutions Associates 803 Stevens Avenue, Oldsmar, FL 34677 http://www.esapcsolutions.com

01-NOV-2010

ESA-486AVR™

Baby-AT form factor Motherboard

- **CPU:** ZFx86[™] System on-Chip.
 - Includes CPU and Chipset
 - Ultra-low power, less than 1.0W
 0 100MHz
 - User selectable CPU speed.
 Jumper for: 33MHz, 66MHz,
 100MHz
- RAM: 8MB PC-100 SDRAM on board (32MB and 128MB available)
- USB: two on board ver 1.1
- Video: Silicon Motion graphic controller on board; SM712 with internal 4MB memory
- FCC and CE certification
- **Baby-AT** form factor Motherboard: 8.6" x 10.2"
 - 8 ISA slots
 - 1 PCI slot
 - one mini-PCI slot
 - AT and ATX power connectors
 - 2 Serial & 1 Parallel (in chipset)
 - 1 FDD
 - 2 IDE headers on board for the standard primary and secondary
 - Speaker on board
 - Reset Button on board
 - Power LED on board
 - HDD LED on board
 - Watchdog Timer
 - GPIO input set up in a standard format
 - AT Keyboard connector
 - PS/2 KB & mouse headers
 - J-TAG, Z-TAG, & GPIO* headers
- BIOS: Phoenix
- DR-DOS 7.0 license included
- Storage: bootable CF connector on board (uses no extra memory addresses)
- Headers: PS/2 for KB and Mouse, and video DB-15
 - * see over for GPIO pinout

ESA-486AVR 486 Motherboard Standard Jumper Settings

Jumper	Jumper Description	Jumper Position	Jumper Diagram
Header		- State	
JB6	MINI PCI	JB6_B (B-ON)	JB6 A MINI PCI
JB7	DRQ/GRT	JB7_B (B-ON) JB7_D (D-ON)	JB7 A C B D DRQ/GRT
JB8	CMOS CLR/ENA	JB8_B (B-ON)	JB8 A CLR CMOS B ENA
JB9	PCI IDSEL	JB9_0 (AD20-ON)	JB9 AD20 AD21 AD22 AD24 PCI IDSEL
JB10	VGA IDSEL	JB10_4 (AD24-ON)	JB10 AD20 AD21 AD22 AD24 VGA IDSEL
JB11	VGA INTSEL	JB11_A (INT A-ON)	JB11 INT A INT B INT C INT D VGA INTSEL
HDR8	CF M/S	HDR8_Disabled	CF M/S • • • HDR8
ALL OTHER JUMPERS	-	OFF	

 $^{^{\}star}$ GPIO - 20 pin header (HDR16) includes IR_RXD (pulled up), IR_TXD, PWM, IO_CS0, IO_CS1, IO_CS2, IO_CS3, MEM_CS1, MEM_CS2, MEM_CS3, 5V_VCC, GPIO_0, GPIO_4, GPIO_7, CPU_TRG, and 5 GND connections