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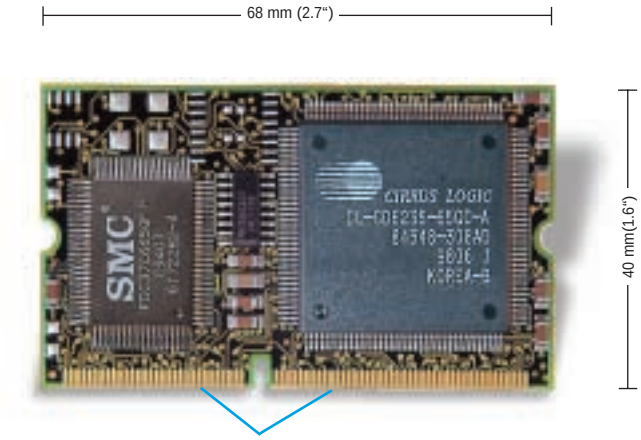
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DIMM-PC/COMBO1

Module with graphic, Ethernet and 2 serial interfaces

Technical Data

- ***VGA LCD part***
  VGA Graphics for CRT and flat displays
  LCD resolutions
  320 x 240 @ 256 colors
  640 x 480 @ 256 colors
  CRT resolutions
  320 x 240 @ 256 colors
  640 x 480 @ 256 colors
  800 x 600 @ 256 colors
  1024 x 768 @ 16 colors
  512 kByte video memory
  supports LCD, TFT and STN flat panel displays (color or monochrome)
  graphic accelerator function such as hardware cursor, color expansion
  simultaneous operation of display and CRT-monitor possible
  supports ¼ VGA-displays (320 x 240) by character compression
  contrast voltage generation and dark screen during boot possible
- ***Ethernet Part***
  Crystal LAN® CS8900 ISA Ethernet adapter
  IEEE802.3 compliant
  half and full duplex
  10 Mbps
  selectable I/O-address
- ***Serial Part***
  2 serial interfaces
  16550 compatible
  up to 115 kBaud
  TTL signal levels
- ***Power requirements:***
  5 Volt only power supply
  low power CMOS
  power consumption: 450 mA max.
- ***Dimensions:***
  68x40 mm (2.7x1.6")
- ***Temperature:***
  operation: 0° to 65°C
  storage: -10° to 85°C
- ***Max. humidity:***
  operation: 10% to 90%
  storage: 5% to 95%
  (do not allow condensing)



DP144-interface

Picture in original size!

Description

The DIMM-PC/COMBO1 is an add-on module for the ***JUMPtec® DIMM-PC®*** *series. It is a combination of the three single modules DIMM-PC/VGA1, DIMM-PC/ETN1 and DIMM-PC/COM1.*

The ***VGA LCD*** *parts highly integrated VGA controller can directly drive monochrome, passive color (STN) and TFT displays. The connected display is automatically recognized via cable configuration and the timing is correspondingly adjusted - plug and play. Resolutions on CRT go up to 1024x768, however on LCD maximum resolution is limited to 640x480. A high graphic-performance is achieved by means of special features such as hardware cursor, color expansion, 16 bit memory and 16 bit I/0 access. 512 kByte graphic memory and a 64 kByte PROM holding the VGA-BIOS are onboard.*

The ***Ethernet*** *part is equipped with the Crystal LAN® CS8900 ISA ethernet adapter from Crystal Semiconductor following the IEEE802.3 standard and supports half- or full-duplex operation in ISA Bus computers on 10 Mbps Ethernet networks. The controllers I/O addresses are software configurable via DOS setup programm.*

The ***serial*** *part is equipped with the SMC 37C665 I/O-controller and adds two more serial ports to a DIMM-PC® system. The signals of the serial ports are available on the DIMM-I/O connector in TTL levels. The customer can decide to use different types of interfaces (RS232, RS485, TTY etc.) by adding his own driver circuitry on his base board.*

The ***DIMM-PC/COMBO1*** *is designed for a 144pin DIMM-connector known from notebooks as memory socket. Note that this connector is different to the used for the DIMM-PC/CPU itself. The pinout of DIMM-PC/CPU and DIMM-PC/COMBO1 are well considered, so an easy and short routing on the customers design is possible (a direct pin to pin connection).*

Seriell	Ethernet	VGA	
x	x	x	DIMM-PC®/COMBO1
x			DIMM-PC®/COM1
	x		DIMM-PC®/ETN1
		x	DIMM-PC®/VGA1

Ordering Information

Article	Part.-No.	Description
DIMM-PC/COM1	08006-0000-02-0	Additional two serial interfaces
DIMM-PC/ETN1	08006-0000-01-0	Ethernet controller
DIMM-PC/VGA-1	08006-0000-00-0	VGA controller for CRT and LCD flatpanels
DIMM-PC/COMBO1	08006-0000-03-0	Graphic controller, Ethernet and two serial interfaces

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