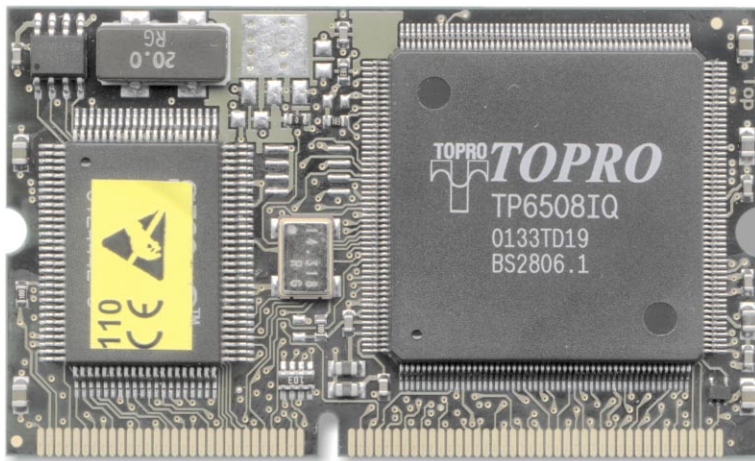


- **DIMM-PC/COMB02**
- **DIMM-PC/VGA2**
- **DIMM-PC/ETH+COM**



- **Full PC functionality and it's only the size of a business card**

- No active cooling required
- Comes with all the common PC interfaces
- Extreme compact size (40 x 67 x 6 mm)

Product Overview

The DIMM-PC/COMBO2 is an add-on module for the DIMM-PC® series. It is a combination of three single modules, DIMM-PC/VGA2, DIMM-PC/ETN1 and DIMM-PC/COM1.

The VGA LCD feature is a highly integrated VGA controller that 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. Resolutions on CRT go up to 1024x768, however on LCD maximum resolution is limited to 800x600. A high graphic-performance is achieved by means of special features such as hardware cursor, color expansion, 32 Bit memory and 16 bit I/O access. 1 MByte graphic memory and a 128 kByte PROM holding the VGA-BIOS are onboard.

The Ethernet feature 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 a 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/COMBO2 is designed for a 144pin DIMM-connector found in most notebooks as a memory socket. Note that this connector is different to the one used for the DIMM-PC/CPU. The pinout of DIMM-PC/CPU and DIMM-PC/COMBO2 are well considered, so an easy and short routing on the customers design is possible (a direct pin to pin connection).

...always a Jump ahead!

Technical Data

➤ VGA LCD Feature:

VGA Graphics for CRT and flat displays
 LCD resolutions
 320 x 240 @ 24 bit
 640 x 480 @ 24 bit
 800 x 600 @ 16 bit
 CRT resolutions
 320 x 240 @ 24 bit
 640 x 480 @ 24 bit
 800 x 600 @ 16 bit
 1024 x 768 @ 8 bit
 1 MByte Video Memory supports LCD, TFT and STN flat panel displays (color and monochrome) graphic accelerator function such as hardware cursor, color expansion simultaneous operation of display and CRT-monitor possible supports 1/4 VGA-Displays (320x240) by character compression

➤ Ethernet Feature:

Crystal LAN® CS8900 ISA Ethernet adapter
 IEEE802.3 compilant
 half and full duplex
 10Mbps
 selectable I/O-address

➤ Serial Feature:

2 serial interfaces
 16550 compatible
 up to 115 kBaud
 TTL signal levels

➤ Power requirements:

5V only power supply
 low power CMOS

➤ Dimensions:

68 x 40 mm (2.7 x 1.6")

➤ Temperature

operation: 0° to 65°C
 storage: -40° to 85°C

➤ Humidity

operation: 10% to 90%
 storage: 5% to 95%
 (non condensing)

Seriell	Ethernet	VGA	
x	x	x	DIMM-PC®/COMBO2
x	x		DIMM-PC®/ETH+COM
		x	DIMM-PC®/VGA2

Article	Part.-No.	Description
DIMM-PC/ETH+COM	08006-0000-04-0	Ethernet controller and two serial interfaces
DIMM-PC/VGA2	08014-0000-00-0	VGA controller for CRT and LCD flatpanels
DIMM-PC/COMBO2	08014-0000-01-0	Graphic controller, Ethernet and two serial interfaces

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