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Find the *Kontron / Rotec Technology Gamma7* at our website: ***Click HERE***

Gamma7



****** Gamma7**** Industrial VMEbus-PC**

Processor
Mobile Pentium III @500 MHz
Intel 440BX Chipset
Write Back L1 Cache, 256KB L2 Cache
Graphic
XVGA, PCI, 8MB VRAM, up to 1280*1024, 24 Bit
DVI-Interface for Panel Link and CRT
Memory
up to256 MB DIMM
Masstorage
2,5" Harddisk (EIDE), 3GB or Silicondisk (IDE) up to 1 GB, Floppydisk Interface
LAN
100Base-TX
Front Panel/IOs

PS2-Keyboard/Mouse, COM1, COM2, LPT1, LAN 100Base-Tx, DVI, USB, Status-LEDs

RT-Support

Watchdogtimer, NMI generated throuth any ISA-Bus Interrupt NMI-Timer for Realtime-OS or Windows-RTK, Realtime Clock with Calendar and Alarm 256 KB Shared SRAM, battery backuped (HW-Byte-Swapping)

VMEbus Interface

PCI-to-VME Bridge Universe II (Tundra)

Extensions

PC104 Interface or ISA-Bus-Extension w/ 2x16Bit Slots IEEEP996.1(Option, 6U)

Supported Operatingsystems

Windows98, WindowsNT, emb.NT, Windows2000, VxWorks, QNX, RT-Linux

▶ **Description**

▶ **Technical Specification**

Description

Gamma7 is a complete Industrial PC with a VMEbus interface which satisfies the specific requirements of industrial applications:
* watchdog timer function for monitoring the local software and hardware
* voltage and temperature monitoring
* NMI timer for real-time operating under Windows and other RT-OS like VxWorks
The modular upgrade options and the ruggedness of the VME technology guarantee safe and reliable use in the harshest of environments. Economical I/O boards or supplementation with fieldbus modules enable local and remote extensions.
The expansion of the Gamma7 itself via an ISA bus adapter is provided independently of the VMEbus interface so that standard ISA bus boards (e.g. SCSI bus masters) can be operated. Alternatively, PC/104 boards can be employed via another adapter.
By using Gamma7 you have all the benefits of working with a PC, also with the VMEbus, as well as a wide range of standard application software and development tools. VME PCs are your ideal interface between the VMEbus and the operator. Take advantage of all that Windows has to offer in visual displays, data-base evaluation and networking
The powerful VisionControl software completes VisionCompact as the ideal solution for automation tasks. This software offers all you need to build an big application in a short time. A real time core brings Windows NT™ 4.0 and 9x™ up to an "hard" real time

operating system, so you can use all features of Microsofts Windows technology in industrial applications.

Technical Specification

LAN-Interface Ethernet	Western(RJ45)
Controller	AMD 79C975
Physical interface	NE2000 compatible, 100Base-Tx
Transmission rate	max. 100 MBaud
USB	Serie A, 2 ports
Controller	PIIX4 (Intel)
Transmission rate	max. 12 MBaud
Graphics Output	DVI
Controller	SMI Lynx 3DM, PCI
Physical interface	DVI for CRT-Monitors and LC-Displays
Resolution	max. 1600x1200
Color depth/ Image buffer	24 bit, True Color /8 MB
Serial Ports COM1/2	9-pin Sub-D connector (male)
Controller	SMSC FDC 37B78X
Physical interface	acc. to EIA RS232
Transmission rate	max. 115,2 KBaud
Parallel Port LPT	25-pin Sub-D connector (female)
Controller	SMSC FDC 37B78X
Physical interface	acc. to IEEE 1284-A
Transmission rate	max. 2MB/s
PS/2 Keyboard and Mouse	6-pin Mini-DIN-connector (female)
Controller	SMSC FDC 37B78X
Physical interface	PS/2 keyboard and mouse combination connection
Floppy Connection	26-pin mini delta ribbon connector (female)
Controller	NEC uPD72065B compatible
Physical interface	34-pin array for IDC-connector
Transmission rate	250 KB/s, 300KB/s, 500KB/s and 1 MB/s
Other Interface	
ISA PC-boards	upt to 2 ISA slots (6HE)
PC/104 boards	1 PC/104 slot
for Mass storage	Enhanced IDE on PCI (inside housing)
Diagnostic LEDs	Power supply, Watchdog, HDD, Ethernet
Power Supply	
Nominal Value	5 VDC
Admissable voltage range	4,875...5,25 VDC
Current Consumption	max tbdA@5V DC (depending on G7-version)
Ambient Conditions	
Temperature operating (storage)	0..+55°C (-20..+60°C) with Harddisk 0..+60°C (-40..+85°C) with SiliconDisk
Vibration operating (storage)	with SiliconDisk: 5g(5g) with Harddisk: 0,5g(5g) Sine, DIN IEC 68 part 2-6, sine, 12...300Hz, 10kt/min, 1h/axis
shock, permanent operating (storage)	15g(15g) DIN IEC part 2-29, halfsine, 11ms 1000 per direction and axis
shock, single, operating (storage)	40g(40g) DIN IEC part 2-27, halfsine, 6 ms, 3 per direction and axis

huminity operating (storage)	8 .. 80%, non condensing
altitude operating (storage)	(-300..3000m above sea level)
Dimensions/Weight	
With / Height / Dept	3U (6U w/ ISAbus extension), 3 slots w/HDD
Electromagnetics Compatability	
Unwanted Emmission	Limits and operation acc. to DIN EN 55022, DIN EN 50081-1
Interferance Immunity	Limits and operation acc. to DIN EN 50082-2
Protection & Safety	
Safety	Limits and operation acc. to DIN EN 60950
Protection	IP20 acc. to DIN 40050 (front side)

Depending on the Gamma7 version, not all features might be available.
Subject to corrections and technical changes.

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