

# PB-AMD-L+-T16R

DM&P Vortex86-DX3 based PC/104 board  
with complete ISA and PCI bus interface



PC/104-Plus™

The PB-AMD-L+-T16R/T40R/T52R is based on the AMD® processors T16R, T40R and T52R, as well as the AMD® A55E chipset. The performance is currently 615 MHz to 1,5 GHz. The DDR3 RAM supports up to 4 GB and is added via SO-DIMM socket. The graphic controller is integrated inside the AMD® CPU and supports CRT displays up to a resolution of 1920x1200 and LVDS displays up to a resolution of 1440x900. This interfaces are available: 2x RS232 (1x RS232, 1x RS232/422/485), 4x USB 2.0, 1x SATA, 1x Compact-Flash™ and dual LAN Gigabit LAN as well as a HD Audio interface. Furthermore the board has a 16bit ISA bus (PC/104™) and a 32bit PCI™ bus (PCI-104™).

Technical Data	
<b>System</b>	
CPU Type	AMD® G-series T16R 615 MHz (Single-Core, 4,5 W) AMD® G-series T40R 1.0 GHz (Single-Core, 5,5 W) AMD® G-series T52R 1.5 GHz (Single-Core, 18 W)
Chipset	AMD® A55E chipset (2,7 – 5,9 W)
Memory Type	1x DDR3 1066/1333 MHz SO-DIMM up to 4GB * DDR3 1333 for T52R CPU only
BIOS	AMI® SPI BIOS
Super I/O	SMSC SCH3112
Watchdog Timer	1-255 sec. or 1-255 min. setup by software
<b>Expansion Slot</b>	
Expansion Interface	1x PC/104Plus™
<b>Display</b>	
Chipset	AMD® Radeon HD 6250 (T52R - HD6310) Graphic
Onboard VGA	1x internal VGA interface
LVDS	1x 18/24-bit single channel LVDS interface
Dual Display Capability	VGA + LVDS
<b>Audio</b>	
Codec	1x HD Audio pin-header (need Audio module to work with)
<b>Ethernet</b>	
Chipset	2x Intel® i211AT Gigabit Ethernet
Interface	2x IEEE 802.3 10/100/1000 Mbit/s compliant physical layer
<b>I/O</b>	
SATA port	1x SATAII up to 3Gbit/s
USB Port	4x USB 2.0 (2pcs. 2x 5 pin header, pitch 2.00 mm)
COM port	1x RS232/RS422/485 (2x 5 pin header/1x 4 pin header, pitch 2.00 mm) 1x RS232 (2x 5 pin header, pitch 2.00 mm)
LAN Port	2x (2x 15 pin header, connector type : DF13A-30DP-1.25V)
SSD interface	1x CompactFlash™ socket
Fan Connector	1x 5V
GPIO	8-bit programmable GPIO interface
<b>Mechanical and Environment</b>	
Form Factor	PC/104
Power Type	Single DC 5V input
Dimension	116mm (L) x 96mm (W)
Operating Temp.	0°C ~ +60°C
Storage Temp.	-20°C ~ +85°C
Relative humidity	10% ~ 97% (operating, non-condensing) 5% ~ 97% (non-operating, non-condensing)

## Features

- Vortex86 DX3 energy-efficient 32-bit x86 CPU
- 6W TDP for fanless applications (CPU)
- 2GB DDR3L 1333 onboard
- Dual LAN connector (1 x GbE, 1 x Fast Ethernet)
- 1x M.2 socket (type E)
- 4GB eMMC Flash onboard
- GPIO 4x in & 4x out
- Supports PC/104+ and PC/104 connector

## Order Information

Article	Part-No.	Description
PB-AMD-L+-T16R	AB1-3G11	AMD® 615 MHz T16R
<b>Accessories</b>		
ATX-Power cable	B786T430	ATX-Power cable
Dual GbE Card	B4727550	2x RJ45 1Gb/s & 100Mb/s Board
Dual GbE Cable	B786T460	2x RJ45 1Gb/s & 100Mb/s cable 14cm
Audio daughter board	B4728130	Audio Daughter board & cable 18cm
COM cable	B786T540	RS232 cable 2mm 14cm

