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PBTM-315 PMC - PCI Bus Analyzer

The ultimate tool for PMC - PCI Test & Debug

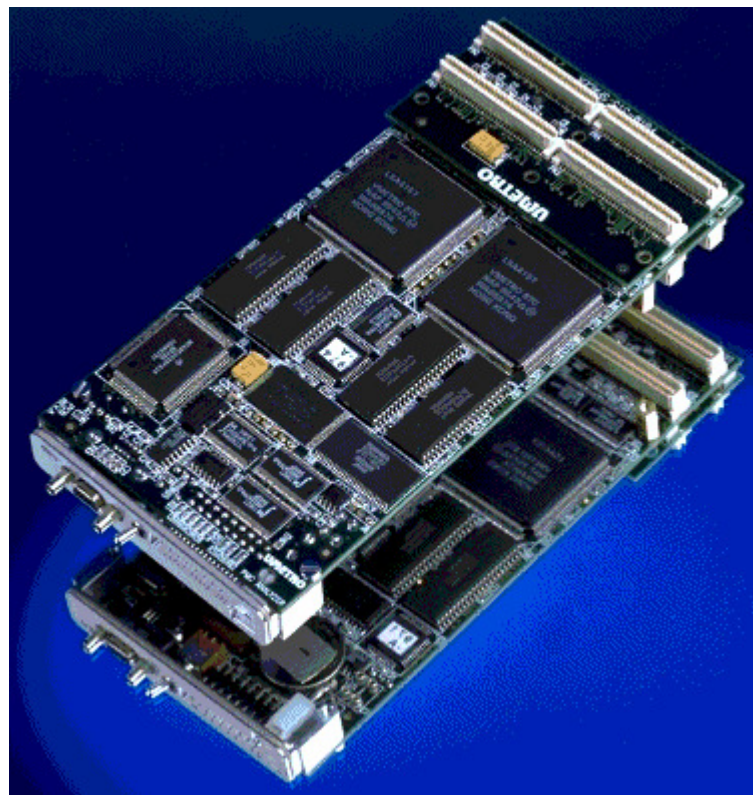
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The **PBTM-315** is a single-wide PMC module that contains a complete logic analyzer for PCI bus systems. It has the same features as the [PBT-315](#) for standard PCI, except deeper trace buffer. The PBTM-315 is able to monitor and trigger on PCI bus activity in 32- and 64-bit PMC motherboards. Together with comprehensive statistics functions, this is a remarkable amount of functionality and performance in an extremely small package.

FEATURES:

- Self-contained
- Non-intrusive
- Stackable - does not require spare PMC site!
- Operated via RS232
- 32 & 64-bits PCI
- Up to 33MHz
- 128 channels
- 64K/256K Trace Buffer
- Multi-level Triggering
- Statistics
- Fits in one VME slot if spacer is removed

See also the [specification](#) and the detailed description of the [PBT-315](#).

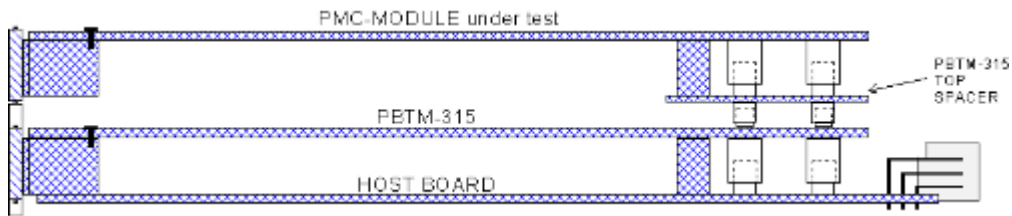


SAME DESIGN AS PBT-315

The features of the PBTM-315 are identical to those of the [PBT-315](#) PCI analyzer for "regular" PCI systems, with exception of the depth of the trace buffer. For a detailed description of all the capabilities of the PBTM-315, read the [PBT-315 details](#).

STACKABLE, NO NEED FOR SPARE PMC SITE

A unique design allows the PBTM-315 to carry another PMC module on top. This is a fundamental feature, allowing analysis of the PCI bus without having to remove a PMC module. The PMC P4 connector is also passed through, to accommodate PMC modules with rear I/O (e.g. to P2ac on VME boards).



EXTERNAL POWER SUPPLY PROVISION

Another unique feature of the PBTM-315 is the provision for an external power supply. This may offload the host board from the burden of supplying power to the analyzer, especially useful if the stacking capability is used to carry another PMC module on top.

PROTOCOL-SENSITIVE BUS SAMPLING

Unlike other analyzers, VMETRO bus analyzers know the bus protocol of the target bus to ensure that sampling takes place at the right moments. For optimal analysis value, the PBTM-315 gives a choice of [sampling modes](#): **TRANSFER -synchronous** sampling stores one sample per valid Data Phase, ideal for SW analysis. **CLOCK-synchronous** sampling stores one sample per each PCI CLK cycle, ideal for HW analysis. Further, the PBTM-315 performs [demultiplexing](#) of Address/ Data and COMMAND/BEx#, and the trace is shown with intuitive **mnemonics** for maximum readability.

STATISTICS OF PCI BUS PERFORMANCE

Substantial amount of hardware is built into the PBTM-315 to perform real-time statistics and [performance measurements](#) on PCI. Hardware event counters tied to the word recognizers provide powerful and responsive measurements of **Event Occurrences** and **Bus Utilization**. There are also trace based statistics, like the **Bus Transfer Rate** measurement.

90 degrees test adapter for the PBTM-315

This adapter kit positions the PMC under test on a 90 degrees angle with the VMEboard and the PBTM-315 test adapter. This allows easy access to signal under neath the PMC module for hooking up to logic analyzers and oscilloscopes. See [figure](#). Note this adapter requires the use of the PBTM-315. To view all the features of the PBTM-315 explained, check out the [detailed description](#). The [specifications](#) of the PBTM-315 are also available.

ORDERING INFORMATION

- PBTM-315B 64K/64-bit PMC Analyzer

This includes onboard firmware in FLASH for operation from terminal. It also includes micro-DB9-to-DB9 serial converter cable, one BNC trigger output cable and two test leads with clips for 1 ext. input + GND.

Related Products

-
- [BV-315-PC](#) BusView for Windows Graphical User-Interface for PCs running Windows 3.X or Windows 95.
- [PBT-315](#) PCibus Analyzer.

Accessories

- 401-TER-232 Terminal Cable.
- 401-PC-232 PC Cable.
- 401-TM315-232 Transparent Mode Cable.
- 401-315-EPC External Power Cable.
- 401-315-ALL Cable package, all of above, plus 12 extra test leads with clips for ext. Inputs.



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