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Find the *Curtiss-Wright / VMETRO VBT-325C* at our website: ***Click HERE***

TIMBAT-PB:

VME Bus Anomaly Trigger & 200 MHz Timing Analyzer

- **Combines VBAT and 200MHz Timing Analyzer in one piggyback module.**
- **VME Bus Anomaly Trigger automatically finds VMEbus violations (identical to VBAT64-PB).**
- **200MHz Timing Analyzer provides detailed view of anomalies found by VBAT.**
- **95 VMEbus signals sampled into 32K trace buffer (128K optional).**
- **Full-width 1/0/X trigger with pattern duration filter (> / < 5-635ns in 5ns steps.)**
- **5ns trigger sensitivity and sampling resolution in 200MHz analyzer.**
- **Up to 6 external inputs in 200MHz analyzer.**

The TIMBAT-PB is an extremely powerful piggyback module that combines the unique VBAT (**V**ME **B**us **A**nomaly **T**rigger) with a full-featured 200MHz Timing Analyzer covering 95 VMEbus signals. The TIMBAT-PB installed on a VBT-325C provides the user access to four different independent instruments, all in a single VME slot.

ANOMALY TRIGGER

The VBAT feature - being identical to that of the VBAT64-PB - automatically looks for timing problems caused by noise, glitches, design errors, configuration errors etc. in VMEbus systems. This is done with asynchronous trigger logic that is hardwired to recognize the VMEbus protocols. Please refer to the description of the VBAT64-PB for all the details of this remarkable unit.

SEE TIMING DETAILS OF BUS VIOLATIONS

Just as for the VBAT64-PB , VMEbus violations are displayed in clear text on the screen, and the cross-trigger output may trigger the VBT-325 VMEbus Analyzer to identify the address, data and any other signals of the failing cycle. However, in order to view the timing details that cause the violation, a faster sampling rate than can be acheived with the VBT-325 is normally required. For this reason the TIMBAT offers an onboard 200 MHz Timing Analyzer that allows the user to study the details of the VMEbus violation in the waveform display with 5ns resolution.

200MHz TIMING ANALYZER

The 200MHz Timing Analyzer feature of the TIMBAT-PB is a full-featured logic analyzer, pre-configured to capture 95 VMEbus signals with a very fast 5ns sampling rate. Also, up to six external signals can be connected to pin header inputs (sharing via jumpers the AM5:0 trace channels). In order to view just the cycles of interest, a rich set of triggering capabilities are provided.

MULTIPLE ANALYZERS IN ONE SLOT

When the TIMBAT-PB module is installed on a VBT-325B it creates a dual VMEbus analyzer configuration, offering simultaneous state and 200 MHz timing analysis (in addition to the Anomaly Trigger). When used together with a VBT-325C, a triple analyzer configuration is acheived by the addition of a VSB, SCSI or User-defined P2 analyzer.

POWERFUL AND FLEXIBLE TRIGGERING

Powerful triggering is the most important characteristic of a logic analyzer, and the triggering capabilities of the TIMBAT-PB is superior to any other analyzer on the market. In fact, the 200MHz analyzer of the TIMBAT-PB has as much as three different trigger sources:

1) Trigger from the onboard VBAT unit when a VMEbus anomaly is found.

2) Trigger using an onboard full-speed pattern trigger (1/0/X word recognizer) that covers all the 95 channels (including up to 6 external signals). With this, the specified pattern can even be qualified with a "pattern duration filter" that provides a trigger only if the pattern is valid for less than or greater than a given time period in the range 5-635 ns.

3) Cross-trigger from the VBT-325 analyzer on which the module is mounted, e.g. to see a cycle found from a complex sequencer trigger from the VME or P2 part of the VBT-325C.

ORDERING INFORMATION

See Piggyback Ordering Information.

For VBT-325 ordering see VBT-325 ordering information.

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