



PowerIntegrator - Logic and Bus Analyzer

- Timing Analyzer with 500 MHz on all Channels
- State Analyzer up to 200 MHz DDR
- 204 Input Channels
- Transient Recording
- Time Correlation with other Tracetools
- Clock Qualifier for State Clock
- Mixed State and Timing Mode
- 4 Clock Inputs
- MICTOR and Standard Probes (single ended)
- MICTOR differential Probes
- Analog Voltage and Current Probe
- 3G/DigRF Protocol Support

The PowerIntegrator module replaces much more expensive logic analyzer systems used for microprocessor system integration. High-speed logic analysis is now possible on every workplace integrated in the debugger software.

Features



Logic Analyzer

Basics

The PowerIntegrator Logic Analyzer is specially designed for microprocessor system integrations. The modul supports timing and state analysis up to 500 MHz.

Fast Upload

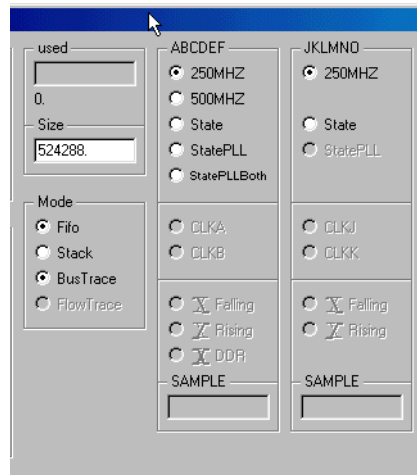
- ❑ 500 KBytes/sec

Time Stamp Unit with 4ns Resolution

Time Correlation with all other Clocks and Analyzers of the System

Master-Slave Operation in Conjunction with other Analyzers

Timing Analyzer



- 102 channels timing mode 500 MHz 1024K Records
- 204 channels timing mode 250 MHz 512K Transients

Transient Recording over required Time

High Memory Depth

- 256K low speed timing transients or state edges

Transient sensitivity can be activated independently for each channel

Input Channels

2 timing operating modes:

State Analyzer

Input Channels

4 state operating modes:

- 204 channels state mode 200 MHz 512K Trace (clock A or B)
- 102 channels state mode 200 MHz 512K Trace (clock A or B) Double Data Rate
- 102 channels state mode 200 MHz 512K Trace (clock A or B) and
- 102 channels state mode 200 MHz 512K Trace (clock J or K)
- sampling on rising or falling clock edge,

Direct Integration in Debug-

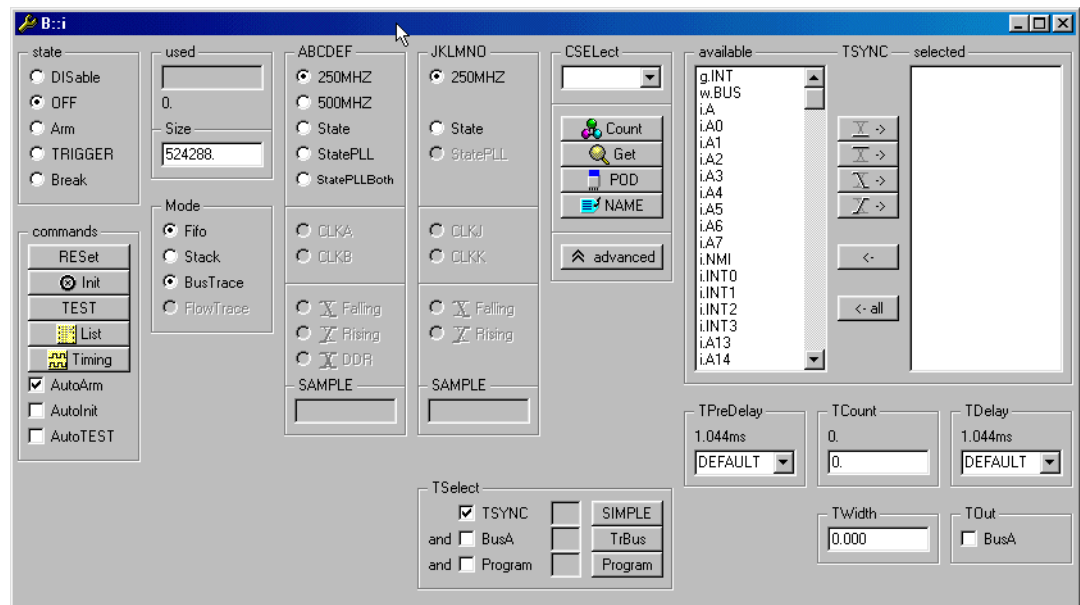
Trigger

ger Software

Complex Bus Oriented Triggering

Support Packages for Evaluation Boards

- Motorola
- ARM (ARM7, ARM9)
- XSCALE
- Altera
- MIPS
- SuperH



Simple Trigger

- 1 Complex comparator with HIGH, LOW, RISING, FALLING

or DON'T CARE for each input

- More than one clock edges can be selected for trigger condition

- Direct setting in timing display window

Complex Trigger

- Free programmable trigger sequencer with 4 levels

Trigger Events

- 2 Trigger comparators with 64 Bit each on every trigger level with HIGH, LOW, DON'T CARE and RANGE
- 8 Address Selectors with 32-Bit Range

4 Trigger Levels

- 4 global event, no death time

Trigger Filter

- Up to 2.5 us

3 Retriggerable 44 Bit Counters in Trigger System

- Time window definition

Formats

Various storage formats

- Binary

Trigger Output for Scope etc.

Triggering through Bus Trigger Lines

Programmable Trigger and Pretrigger Delay 0 to 1000% of Records

Triggering of other System Units

Trigger Output for Scope etc.

Trigger Input

- BUS
- External
- Trigger mode
 - High
 - Low
 - Rising
 - Falling

- VHDL
- Verilog

Protocol Support

Protocol Analysis

- CAN Support
- USB Support

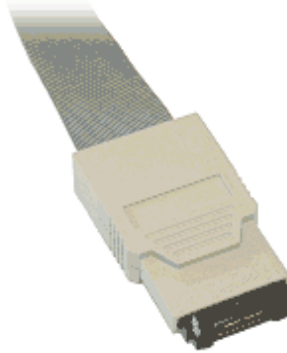
- I2C Support
- JTAG Support
- ASYNC Support
- User Specific Protocols

Disassembler Support

- Many disassemblers can be selected for bus trace operations

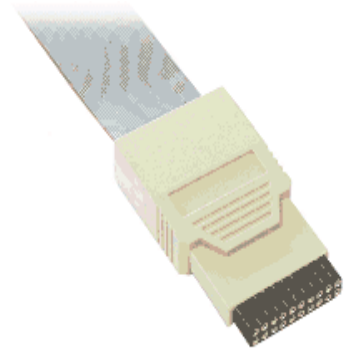
Probes

MICTOR Probe



- 34 channel MICTOR probe (32 Data, 2 Clocks)
- Selectable threshold level for groups of 17 lines (16 Data, 1 Clock)
- 0.1..5.0 V
- 50 KOhm/4 pF 0..5 V with probe compensation

Standard Probe

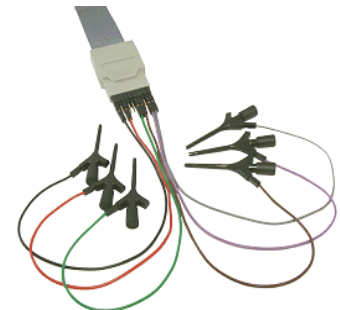


- 17 channels Selectable threshold level (16 Data, 1 Clock)
- 0.1..5.0 V
- 50 KOhm/4 pF 0..5 V with probe compensation

SAMTEC Probe



- 34 channel SAMTEC probe (32 Data, 2 Clocks)
- Selectable threshold level for groups of 17 lines (16 Data, 1 Clock)
- 0.1..5.0 V
- 50 KOhm/4 pF 0..5 V with probe compensation



Analog Probe

- 4 Voltage Channels 12 bit 0..5 V, 1 MOhm
- 3 Current Channels 5% Accuracy, external Shunt
- 625 k/sec Sample Rate

DRAM Adapter

- 184 Pin DIMM

Order Information

Module Description

OrderNo Code	Text
LA-7940 PI- LOGICANALYZ ER	PowerIntegrator Logic Analyzer ICD State-Timing Analyzer, 204 Channels, 200(400) MHz State, 500 MHz Timing, Transient Recording, 8 MB sample memory, 512 KFrames, 48 Bit Time-Stamp, Trigger Filter, Trigger Delay, etc. Requires PODBus-Interface Requires a valid software maintenance of the debug system it is connected to
LA-3940 PI2- LOGICANALYZ ER-1G	PowerIntegrator II Logic Analyzer 1 GByte State-Timing Analyzer, 102 channels, 200 (400) MHz state, 500 MHz timing, transient recording, 64 MFrames, 48-bit time-stamp, trigger, filter, trigger Delay, etc. Requires Power Debug II Ethernet (LA-7699) Requires a valid software maintenance for the debug system it is connected to
LA-3941 PI2- LOGICANALYZ ER-2G	PowerIntegrator II Logic Analyzer 2 GByte State-Timing Analyzer, 102 channels, 200 (400) MHz state, 500 MHz timing, transient recording, 128 MFrames, 48-bit time-stamp, trigger, filter, trigger Delay, etc. Requires Power Debug II Ethernet (LA-7699) Requires a valid software maintenance for the debug system it is connected to
LA-3942 PI2- LOGICANALYZ ER-4G	PowerIntegrator II Logic Analyzer 4 GByte State-Timing Analyzer, 102 channels, 200 (400) MHz state, 500 MHz timing, transient recording, 256 MFrames, 48-bit time-stamp, trigger, filter, trigger Delay, etc. Requires Power Debug II Ethernet (LA-7699) Requires a valid software maintenance for the debug system it is connected to
LA-3951 PI-SOFTT-NS- DIFF	SoftTouch NS Adapter for PowerIntegrator Soft Touch normal-size Probe for Mictor Probe Differential (LA-7947) includes a retention module and a connector block Agilent -> normal size
LA-3952 PI-SOFTT-NS- DIFF-CA	SoftTouch NS Cable Adapter PowerIntegrator Soft Touch normal-size Probe with cable for Mictor Probe Differential (LA-7947) includes a retention module and a connector block Agilent -> normal size

OrderNo Code	Text
LA-3953 PI-SOFTT-NS	SoftTouch NS Adapter for PowerIntegrator Soft Touch normal-size Probe for Mictor Probe (LA-7944) includes a retention module and a connector block Agilent -> normal size
LA-3954 PI-SOFTT-NS-CA	SoftTouch NS Cable Adapter PowerIntegrator Soft Touch normal-size Probe with cable for Mictor Probe (LA-7944) includes a retention module and a connector block Agilent -> normal size
LA-3955 PI-SOFTT-HS-DIFF	SoftTouch HS Adapter for PowerIntegrator Soft Touch half-size Probe for Mictor Probe Differential (LA-7947) includes a retention module and a connector block Tektronix -> half size
LA-3956 PI-SOFTT-HS-DIFF-CA	SoftTouch HS Cable Adapter PowerIntegrator Soft Touch half-size Probe with cable for Mictor Probe Differential (LA-7947) includes a retention module and a connector block Tektronix -> half size
LA-3957 PI-SOFTT-HS	SoftTouch HS Adapter for PowerIntegrator Soft Touch half-size Probe for Mictor Probe (LA-7944) includes a retention module and a connector block Tektronix -> half size
LA-3958 PI-SOFTT-HS-CA	SoftTouch HS Cable Adapter PowerIntegrator Soft Touch half-size Probe with cable for Mictor Probe (LA-7944) includes a retention module and a connector block Tektronix -> half size
LA-7955 PI-SDRAM144	PowerIntegrator Adapter SODIMM SDRAM Adapter SODIMM SDRAM to MICTOR Requires three Mictor Probes
LA-7956 PI-DDR	PowerIntegrator Adapter SODIMM DDR 400MHz Adapter SODIMM DDR to MICTOR Requires two Mictor Probes plus one Mictor Differential Clock Probe
LA-7957 PI-DDR2	PowerIntegrator Adapter SODIMM DDR2 400MHz Adapter SODIMM DDR to MICTOR Requires two Mictor Probes plus one Mictor Differential Clock Probe
LA-7963 PI-SDRAM144-INVERSE	PowerIntegrator Adapter SODIMM SDRAM Inverse Adapter SODIMM SDRAM to MICTOR (left-hand version) Requires three Mictor Probes
LA-7964 PI-DDR-INVERSE	PowerIntegrator Adapter SODIMM DDR 400MHz Inv Adapter SODIMM DDR to MICTOR (left-hand version) Requires two Mictor Probes plus one Mictor Differential Clock Probe
LA-7965 PI-DDR2-INVERSE	PowerIntegrator Adapt. SODIMM DDR2 400MHz Inv Adapter SODIMM DDR2 to MICTOR (left-hand version) Requires two Mictor Probes plus one Mictor Differential Clock Probe
LA-7945 PI-STDPROBE	Standard Probe for PowerIntegrator Standard Probe for PowerIntegrator, 17 Channels (16 Data, 1 Clock), 0..5 V Input, 4 pF, 50 KOhm includes a 20 pin male-male adaptor

OrderNo Code	Text
LA-7944 PI-MICTOR	Mictor Probe for PowerIntegrator Mictor Probe for PowerIntegrator, 34 Channels (32 Data, 2 Clock), 0..5 V Input, 4 pF, 50 kOhm
LA-7954 PI-MICTOR- DIFFCLOCK	Mictor Probe for PowerIntegrator DIFFCLOCK Mictor Probe for PowerIntegrator, 33 Channels (32 Data, 1 pair of differential clock), 0..5 V Input, 4 pF, 50 kOhm
LA-7947 PI- MICTORDIFF	Mictor Probe for PowerIntegrator DIFFERENTIAL Mictor Probe for PowerIntegrator, 17 Difference Channels (16 Data, 1 Clock), 0..5 V Input, 4 pF, 50 kOhm applicable to PowerIntegrator and PowerTrace II
LA-7946 PI-SAMTEC	Samtec Probe for PowerIntegrator Samtec Probe for PowerIntegrator, 34 Channels (32 Data, 2 Clock), 0..5 V Input, 4 pF, 50 kOhm
LA-7958 PI-SAMTEC- DIFFCLOCK	Samtec Probe for PowerIntegrator DIFFCLOCK Samtec Probe for PowerIntegrator, 33 Channels (32 Data, 1 pair of differential clock), 0..5 V Input, 4 pF, 50 kOhm
LA-7949 PI-ANALOG	Analog Probe for PI, PT-II and CombiProbe 4 Channels 0..5 V 12 Bit Resolution, 3 Current Sense Channels, Conversion Rate 625K Samples/Sec applicable to PowerIntegrator, PowerTrace II and CombiProbe CombiProbe requires Converter CombiProbe to PI-Analog Probe (LA-4508)
LA-7961 PI-USB2	USB2 Probe for PowerIntegrator For recording of USB1x and USB2 Support for filtering, trigger and display on PID protocol level
LA-7943 PI-DIGRF- PROBE-SET	DigRF Probe Set probe set (3 pieces) for 3G/DigRF protocol for the PowerIntegrators (not supported by PowerTraceII analyzer slot) differential RX; differential TX; single ended SysClkEna and single ended ANY (for free use)
LA-7962 PI-34CH- MICTOR	34CH Compression-on-PCB to Mictor Adapter Converter TEKTRONIX footprint to MICTOR connector for PowerIntegrator
LA-7959 PI-ESICON	PowerIntegrator Adapter to ESICON Adaptor for ESI-CON. plugged between target and Eprom-Simulator-Probe Requires 2 Mictor Probes or 3 Standard Probes
LA-7649 CONV-MIC38- 2,54MM	Converter Mictor38 to 2,54 mm Connector Converter from Mictor 38 to 2,54 mm Connector

Detailed Order Information

Order No.	Code	Text
LA-7940	PI-LOGICANALYZER	PowerIntegrator Logic Analyzer
LA-3940	PI2-LOGICANALYZER-1G	PowerIntegrator II Logic Analyzer 1 GByte
LA-3941	PI2-LOGICANALYZER-2G	PowerIntegrator II Logic Analyzer 2 GByte
LA-3942	PI2-LOGICANALYZER-4G	PowerIntegrator II Logic Analyzer 4 GByte
LA-3951	PI-SOFTT-NS-DIFF	SoftTouch NS Adapter for PowerIntegrator
LA-3952	PI-SOFTT-NS-DIFF-CA	SoftTouch NS Cable Adapter PowerIntegrator
LA-3953	PI-SOFTT-NS	SoftTouch NS Adapter for PowerIntegrator
LA-3954	PI-SOFTT-NS-CA	SoftTouch NS Cable Adapter PowerIntegrator
LA-3955	PI-SOFTT-HS-DIFF	SoftTouch HS Adapter for PowerIntegrator
LA-3956	PI-SOFTT-HS-DIFF-CA	SoftTouch HS Cable Adapter PowerIntegrator
LA-3957	PI-SOFTT-HS	SoftTouch HS Adapter for PowerIntegrator
LA-3958	PI-SOFTT-HS-CA	SoftTouch HS Cable Adapter PowerIntegrator
LA-7955	PI-SDRAM144	PowerIntegrator Adapter SODIMM SDRAM
LA-7956	PI-DDR	PowerIntegrator Adapter SODIMM DDR 400MHz
LA-7957	PI-DDR2	PowerIntegrator Adapter SODIMM DDR2 400MHz
LA-7963	PI-SDRAM144-INVERSE	PowerIntegrator Adapter SODIMM SDRAM Inverse
LA-7964	PI-DDR-INVERSE	PowerIntegrator Adapter SODIMM DDR 400MHz Inv
LA-7965	PI-DDR2-INVERSE	PowerIntegrator Adapt. SODIMM DDR2 400MHz Inv
LA-7945	PI-STDPROBE	Standard Probe for PowerIntegrator
LA-7944	PI-MICTOR	Mictor Probe for PowerIntegrator
LA-7954	PI-MICTOR-DIFFCLOCK	Mictor Probe for PowerIntegrator DIFFCLOCK
LA-7947	PI-MICTORDIFF	Mictor Probe for PowerIntegrator DIFFERENTIAL

Order No.	Code	Text
LA-7946	PI-SAMTEC	Samtec Probe for PowerIntegrator
LA-7958	PI-SAMTEC-DIFFCLOCK	Samtec Probe for PowerIntegrator DIFFCLOCK
LA-7949	PI-ANALOG	Analog Probe for PI, PT-II and CombiProbe
LA-7961	PI-USB2	USB2 Probe for PowerIntegrator
LA-7943	PI-DIGRF-PROBE-SET	DigRF Probe Set
LA-7962	PI-34CH-MICTOR	34CH Compression-on-PCB to Mictor Adapter
LA-7959	PI-ESICON	PowerIntegrator Adapter to ESICON
LA-7649	CONV-MIC38-2,54MM	Converter Mictor38 to 2,54 mm Connector
Additional Options		
LA-6470	CLIPSET	Clip Set (Cable and Clips)
LA-7966	PI-USB3	USB3 Probe for PowerIntegrator-II

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