

OpenATE PA64S

* Interface	3U PXI (V)	USB (-)	3U PXI 
* 64 digital channels			
* -0.5V ~ +3.5V VIH VIL per channel; VOH VOL per two channels			
* 64 PMU per board			
* 16 x 100MHz 32bit TMU			
* 16 x I2C/SPI data engine			
* 16 x external trigger start for I2C			
* 16 x CLK Generators			
* API & Pattern Editor			
Description The PA64S represents a new level of performance and capabilities for PXI-based digital instrumentation. The PA64S offers high performance pin electronics and 16 sites of TMU/SPI/I2C/CLK generator in a compact, 3U PXI form factor. Each card can function as a stand-alone digital subsystem or if required, multiple cards can be integrated, supporting up to 256 sites (16 boards).			Compatibility All OpenATE Interfaces PXI cards comply with the PXI Specification 2.0 (issued Aug. 2000)
Software The PA64S is supplied with API in 32bit or 64bit Windows system.			Application • Open / Short Testing • Sensor Device Testing

OpenATE PA64S

Specifications

• Pin Electronics	
I/O Channels	64, per board resource
Input Level (Vih/ Vil)	-0.5V ~ +3.5V per channel
Output Level (Voh/Vol)	-0.5V ~ +3.5V per two channels
Output Impedance	50 Ohm
• I2C	
Sites	16
Clk resolution	100nS
Clk range	50KHz ~1MHz
Start trigger	Software, PXI trigger
I/O data size	256 bytes
• SPI	
Sites	16
Clk resolution	40nS
Clk range	100KHz ~5MHz
Start trigger	Software, PXI trigger, external trigger(per site)
I/O data size	1K bytes
• TMU	
Sites	16
Function	Counter mode, Difference time measurement mode
Counter resolution	10nS
Counter range	32bits
• CLK Generator	
Sites	16
Clk resolution	10nS
Clk range	50KHz ~40MHz
• PMU	
Number of PMU	64
PMU Accuracy	I: 1.0%FS V: 30mV
Number of IRange x 3	I2: ±400uA
	I3: ±4mA,
	I4: ±40mA
Number of VRange x 1	E1: -1V ~ +4V
• Trigger	PXI_TRIG Bus : 8

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● Physical Properties	
Bus Interface	PXI
Dimensions	3U
Power Requirements	3.3V@3A, 5V@3A 12V@1A
System Clock	100MHz
Bus & Signals	8 PXI Trigger bus lines for parallel test
● Environmental	
Operating Temperature	0 ~ 50°C
Storage Temperature	-20°C ~ 70°C
● Software	PXI : API & Pattern Editor
● Maximum boards in one system	16
● PXI Compliance	All OpenATE Interfaces PXI cards comply with the PXI Specification 2.0 (issued Aug, 2000)

OpenATE Inc.

The Open Solution for IC Tester

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