


# OpenATE PEMU4

<p>* Interface</p> <p>USB ( V )</p> <p>* 4 input / output channels, dynamically configurable</p> <p>* 20 MHz data rate</p> <p>* -1V ~ +7V VOH VOL VIH VIL per channel</p> <p>* 16K of on-board vector memory per channel</p> <p>* 16K of on-board capture/log memory</p> <p>* 4 SMU up to 500mA/ -1.0 ~ +6.5V output /</p> <p>* 4 SMU up to 50mA/ -2.0 ~ +7.5V output /</p> <p>* 8 DUT relay driver</p> <p>* 4 PMU per board</p> <p>* 16-bit high resolution A/D converter</p> <p>* I2C Master to 400KHz</p> <p>* RFFE Master to 26MHz</p> <p>* Counter for Frequency Measurement x4</p> <p>* 4 CLK generators per board</p> <p>* Win10 API</p>	<p style="text-align: center;">USB</p> 
<p><b>Description</b></p> <p>The PEMU4 represents a new level of performance and capabilities for USB-based SMU (Source Measurement Unit) instrumentation. The PEMU4 supports -1V to +6.5V 0.5A with FVMI, FVMV, FIMV, FIMI modes. 4 channel can be ganged to support high current driving. I2C/RFFE function for serial port device testing. 4 Counter for frequency measurement. .</p>	<p><b>Compatibility</b></p> <p>All OpenATE Interfaces USB case comply with the Universal Serial Bus Specification 2.0</p>
<p><b>Software</b></p> <p>The PEMU4 is supplied with API on Windows 10</p>	<p><b>Application</b></p> <ul style="list-style-type: none"> <li>• Power supply for electronics device</li> <li>• Semiconductor test</li> <li>• LED / laser diode test</li> <li>• Power electronics test</li> <li>• Sensor test</li> <li>• I2C/RFFE salve Device Testing</li> </ul>

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## Specifications

● SMU		
Number of SMU		4
Accuracy	FI	0.25%+20nA
	MI	0.25%+20nA
	FV	0.1%+10mV
	MA	0.1%+10mV
Number of IRange x 6	IR1:	±5uA
	IR2:	±50uA
	IR3:	±500uA
	IR4:	+5mA
	IR5:	+50mA
	IR6:	+500mA
Number of VRange x 1		VR1:-1V ~ +6.5V
● Physical Properties		
Dimensions		23 * 16.9 * 6 cm (L * W * H)
Bus & Signals		4 Trigger bus lines for parallel test
● Environmental		
Operating Temperature		0 ~ 50°C
Storage Temperature		-20°C ~ 70°C
● Maximum boards in one system		1

**OpenATE Inc.**

*The Open Solution for IC Tester*

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