imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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TECHNICAL SPECIFICATION OPTIMIZE POWER USAGE IN IOT DEVICES

Qoitech AB is a Sony Group company bringing to market the Otii solution a comprehensive toolkit for energy optimization of devices within IoT, Internet of Things. Otii was envisioned by a team of developers at Sony Mobile Communications, leveraging twenty years' experience in developing energy optimized devices for the global telecom market. Otii launched in Europe in July 2017, and is one of the new businesses established within the Sony acceleration and incubation program in Europe. Otii is used by a growing number of developers committed to creating energy-efficient and sustainable IoT devices.

www.qoitech.com

FEATURES

Free Viewer	Otii Standard	Otii Premium	
Open Project	Open Project	Open Project	
View existing data	View existing data	View existing data	
Navigate	Navigate	Navigate	
Statistics	Statistics	Statistics	
Show/hide recordings	Show/hide recordings	Show/hide recordings	
Show/hide visualizations	Show/hide visualizations	Show/hide visualizations	
Filter log	Filter log	Filter log	
Change offsets	Change offsets	Change offsets	
	Devices	Devices	
	Settings	Settings	
	New Projects	New Projects	
	Save project	Save project	
	Record new data	Record new data	
	Export to CSV	Export to CSV	
	Downsample	Downsample	
		Battery profiling	
		Battery simulation	
		Scripting & Automation	

SPECS

	Min	Тур	Мах
OPERATING ENVIRONMENT	15 °C / 60 °F		25 °C / 77 °F
USB POWER SUPPLY ⁽¹⁾			
Output Voltage (auto range)	0.5 V		3.75 V
Output Voltage (locked to High Current range)	0.5 V		4.2 V
Output Voltage Setting Resolution		1 mV	
Output Voltage Accuracy		±1%	
Output Current		250 mA	
XTERNAL 7.5-9V POWER SUPPLY ⁽²⁾			
Output Voltage (auto range)	0.5 V		4.55 V
Output Voltage (locked to High Current range)	0.5 V		5.0 V
Output Voltage Setting Resolution		1 mV	
Output Voltage Accuracy		±1%	
Output Current, max continuous ⁽³⁾		2.5 A	
Output Current, max peak ⁽³⁾		5.0 A	

	Min	Тур	Мах
PROGRAMMABLE CURRENT SINK			
Sink current	0 A		2.5 A
Sink current, resolution		39 µA	
Sink voltage, USB power supply	0.85V ⁽⁴⁾		4.2V
Sink voltage, external power supply	0.85V ⁽⁴⁾		5.0V
CURRENT MEASUREMENT			
Accuracy		±(1% + 0.5 μA)	
Sample Rate in ±19 mA range		4 ksps	
Sample Rate in ±2.7 A range		1 ksps	
Sample Rate in 0 – 5 A range		1 ksps	
Analog Bandwidth (3dB)		400 Hz	
VOLTAGE MEASUREMENT			
Total accuracy		±(1% + 10 mV)	
Sample Rate		1 ksps	
UART			
Bitrate	9600 bps		4 M bps
DIGITAL I/O; GPO1, GPO2, TX ⁽⁵⁾			
V _{IO} , Expansion Port Operating Voltage	1.2 V	V _{IO} ⁽⁶⁾	5 V ⁽⁷⁾
V _{IL} , Low-level input voltage			V _{IO} * 0.2 V
V _{IH} , High-level input voltage	V _{IO} * 0.8 V		
I _{max} , Maximum sink/source current			10 mA
ADC, Differential Analog/Digital Conversion pins ADC-, ADC+ (8)			
Voltage input	0 V		5 V
Shunt Voltage Range	-81.9175 mV		81.2 mV
Resolution		2.5 μV	
Accuracy		±(0.1% + 10 μV)	
Input Impedance		220 kΩ	
ADC, Single Ended Analog/Digital Conversion pin ADC+			
Voltage input	0 V		5 V
Resolution		1.25 mV	
Accuracy		±(0.1% + 7.5 mV)	
Input Impedance		830 kΩ	
SENSE, pins SENSE- and SENSE+			
Voltage input	0 V		5 V
Resolution		1.5 mV	
Accuracy		1%	
Input impedance		1 ΜΩ	

USB power capacity and reliability in laptops and desktops greatly depend on host USB port/cable design.
 See list of recommended external power supplies and powered USB hubs at www.oti.com/FAQ
 Depends on chosen power supply. Otil Arc will monitor internal temperature and cut off if temperature limit is reached.
 Sink voltage can go below this specification if locked to high range. It is possible to go down to 0.5V if the sink current is below 1.9A.

5) See Nexperia SN74LVC8T245 for details.

6) Expansion Port Digital voltage level is set by user in Otii SW.
7) Maximum voltage will depend on your USB power supply and USB cable.
8) See TI INA226 for details.



Otii helps companies create energy efficient apps and IoT devices to meet the increasing market demands for long-lasting products. Our state-of-the-art solution leverages on over fifteen years' experience in developing energy optimized smart devices for the global telecom market. The Otii system is a comprehensive toolkit for energy optimization of IoT devices.

It is easy to use, requires minimal setup, and lets developers measure and analyze energy usage at any stage of development. Otii is owned by Qoitech and is a part of Sony.

Learn more: www.qoitech.com

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