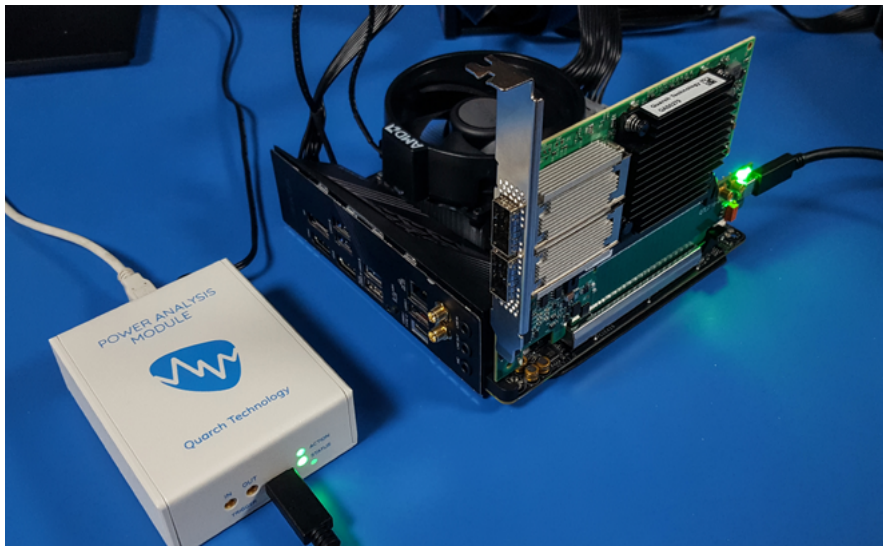




Advanced power analysis

SETUP IN SECONDS AND CAPTURE FOR HOURS



POWER ANALYSIS HAS NEVER BEEN EASIER

CONTENTS

Device Power Analysis (PAM range)	Pg 3	Storage Power Analysis (PPM)	Pg 9
Storage Power Analysis (PAM)	Pg 4	AC Power Analysis.....	Pg 15
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KEY BENEFITS

The Quarch power analysis range uses **plug-and-play fixturing** for fast setup. There is little need for custom cabling, current clamps or probes.

High resolution data can be **captured for many hours**, giving you an order of magnitude more data than a traditional scope. **Capture multiple power rails and digital sidebands** to aid debugging.

Capture and analysis can be done in a couple of clicks in our **powerful software tools**.

You can take control, with **fully automated testing** using our simple automation library.

The PPM range also includes a power supply, perfect for **voltage margining**, ramping, glitching and many other scenarios.

Quarch tools are **widely trusted** across the industry and referred to in several industry standards which require accurate power Vs performance metrics.



Our powerful range of analysers include fixtures for the latest Gen6 PCIe devices and support PCIe, CXL and OCP.

POWER ANALYSIS MODULE (PAM)

[Find out more](#)



USB 2.0 and 100Mb Ethernet Connectivity, 12V External PSU, 3.3v MCX Trigger In and Trigger Out, Fully Isolated from Fixture

Device power analysis

DEVICE APPLICATIONS REQUIRE A POWER ANALYSIS MODULE (PAM) AND A POWER ANALYSIS FIXTURE

Capture analog and digital signals over long time periods.



GEN6 SFF PAM FIXTURE (SAS/SATA/U.2/U.3)

[Find out more](#)



SFF PAM: ANALOG CHANNELS: 12V, 5V, 3.3VAUX, SAMPLE RATE 250KS/S, VOLTAGE: 0 – 15V $\pm$ (2mV+1%), 12V CURRENT: 100uA-1mA $\pm$ (25uA+1%) 1mA-13A $\pm$ (2mA+1%), 5V CURRENT: 100uA-1mA $\pm$ (25uA+1%) 1mA-13A $\pm$ (2mA+1%), 3.3VAUX CURRENT: 0-85mA $\pm$ (25uA+1%)
DIGITAL CHANNELS: PERST#, CLKREQ#_PERSTB#, WAKE#, SMBCLK, SMBDAT, ACTIVITY#, PWRDIS, PRSNT#, IFDET, IFDET2, HPT0, HPT1, DUAPLORTEN#, P2, SAMPLE RATE 1MS/S

Storage power analysis

GEN5 M.2 M-KEY PAM FIXTURE

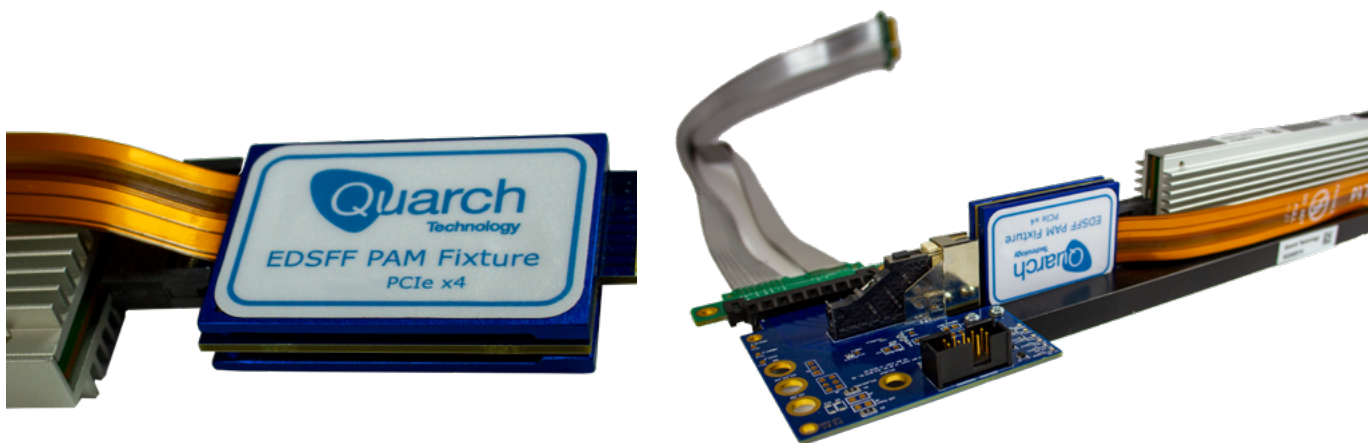
[Find out more](#)



M.2 PAM: ANALOG CHANNELS: 3.3V, VIO_1V8, SAMPLE RATE 250KS/S, VOLTAGE: 0 – 15V $\pm$ (2mV+1%), CURRENT: 0-1mA $\pm$ (15uA+1%) 1mA-13A $\pm$ (2mA+1%) DIGITAL CHANNELS: CLKREQ#, PERST#, PEWAKE#, SUSCLK, PEDET, ALERT#, SMB_DATA, SMB_CLK, LED_1#, DEVSLP, MFG_DATA, MFG_CLK, VIO_CFG, PWRDIS, PLA_S3#, PLN# SAMPLE RATE 1MS/S

GEN6 EDSFF PAM FIXTURE (E1.S/E1.L/E3/E3 2T)

[Find out more](#)



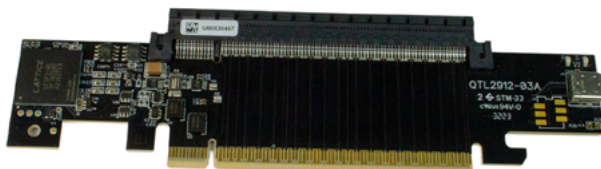
EDSFF PAM: ANALOG CHANNELS: 12V, 3.3VAUX, SAMPLE RATE 250KS/S, VOLTAGE: 0 – 15V $\pm(2mV+1\%)$, 12V CURRENT: 100uA-1mA $\pm(25uA+1\%)$ 1mA-13A $\pm(2mA+1\%)$, 3.3VAUX CURRENT: 100uA-85mA $\pm(25uA+1\%)$ DIGITAL CHANNELS: PRSNT0#, PERST1#_CLKREQ#, LED, SMBRST#, SMBDAT, SMBCLK, PWRDIS, PERST0#, DUALPORTEN#, RFU, MFG, SAMPLE RATE 1MS/S

Storage and beyond

GEN6 AIC/SLOT X16 PAM

Supports all slot powered AIC devices: SSDs, NICs, HBAs and more.

[Find out more](#)



AIC PAM: Analog Channels: 12V, 3.3V, 3.3Vaux, Sample Rate 250KS/s, Voltage: 0 – 15V $\pm(2mV+1\%)$, 12V Current: 100uA-1mA $\pm(10uA+1\%)$ 1mA-13A $\pm(2mA+1\%)$, 3V3 Current: 100uA-1mA $\pm(10uA+1\%)$ 1mA-13A $\pm(2mA+1\%)$, 3.3Vaux Current: 0-400mA $\pm(10uA+1\%)$ Digital Channels: PERST#, CLKREQ#, WAKE#, SMBCLK, SMBDAT, Sample Rate 1MS/s

GEN5 AIC/SLOT X16 PAM FIXTURE +AUX POWER

[Find out more](#) ➔



AIC +AUX PAM: ANALOG CHANNELS: 12V, 3.3V, 3.3VAUX, 12VAUX, SAMPLE RATE 250KS/S, VOLTAGE: 0 – 15V $\pm$ (2mV+1%), 12V CURRENT: 0-32.5A $\pm$ (5mA+1%), 3.3V CURRENT: 0-13A $\pm$ (2mA+1%), 3.3VAUX CURRENT: 0-3.25A $\pm$ (0.5mA+1%), 12VAUX CURRENT: 0-162.5A $\pm$ (25mA+1%)
DIGITAL CHANNELS: PERST#, CLKREQ#, WAKE#, SMBCLK, SMBDAT, REFCLK_LOS#, SAMPLE RATE 1MS/S

GPU and AI Analysis

AUX FIXTURES (DUAL PCIE, TRIPLE PCIE, 12VHP)



Calibrated fixtures support all major GPU / Accelerator power supplies.

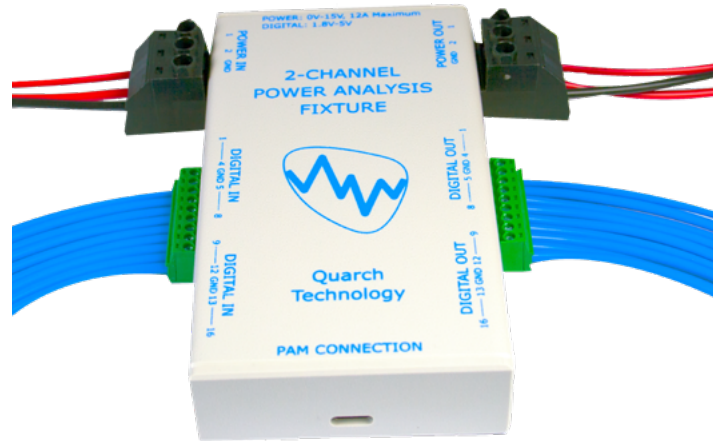
Includes power sequencing.

Dual PCIe, Triple PCIe and 12VHP versions.



2 CHANNEL PAM

[Find out more](#)

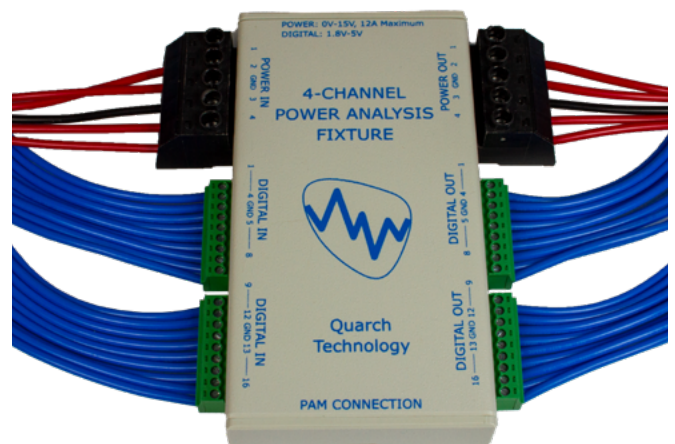


2 CHANNEL: ANALOG CHANNELS: 2 CHANNELS, SAMPLE RATE 250KS/S, VOLTAGE: 0 – 15V $\pm(2\text{mV}+1\%)$, CURRENT: 0-1mA $\pm(15\mu\text{A}+1\%)$ 1mA-13A $\pm(2\text{mA}+1\%)$ DIGITAL CHANNELS: 16 CHANNELS SAMPLE RATE 1MS/S, VOLTAGE RANGE 1.8-5V

Multi-channel fixtures

4 CHANNEL PAM

[Find out more](#)

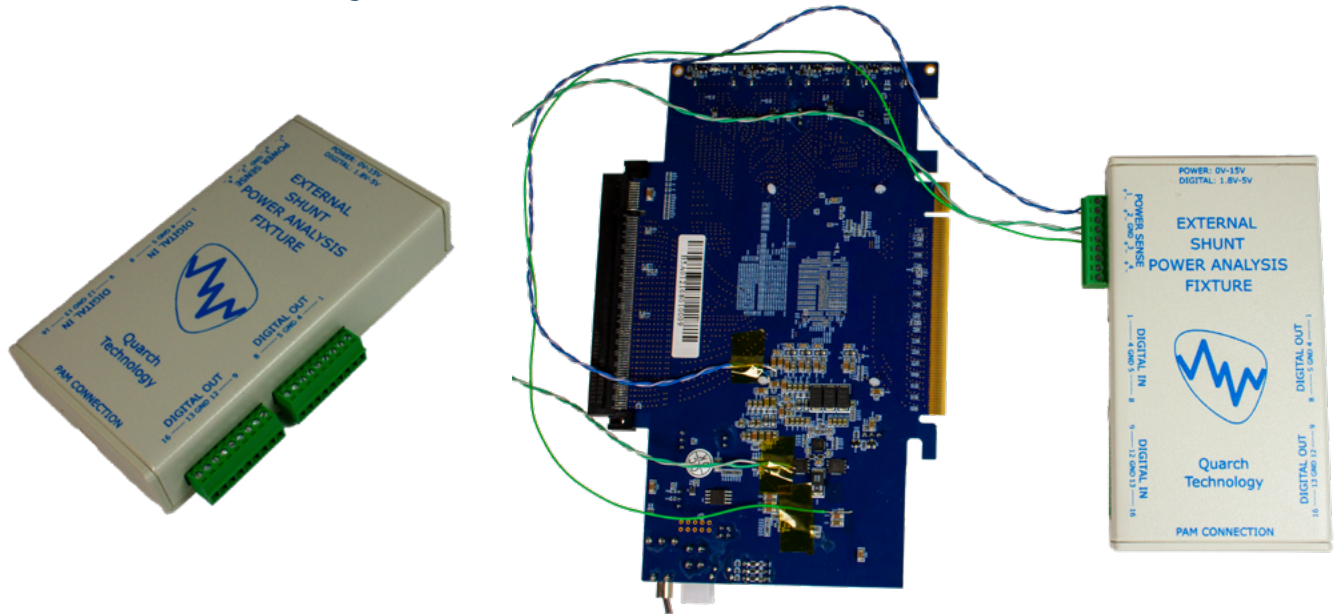


4 CHANNEL: ANALOG CHANNELS: 4 CHANNELS, SAMPLE RATE 250KS/S, VOLTAGE: 0 – 15V $\pm(2\text{mV}+1\%)$, CURRENT: 10mA-13A $\pm(10\text{mA}+1\%)$ DIGITAL CHANNELS: 16 CHANNELS SAMPLE RATE 1MS/S, VOLTAGE RANGE 1.8-5V

EXTERNAL SHUNT PAM

[Find out more](#) ➔

Connects into a wide range of embedded shunts.



EXTERNAL SHUNT: 4 CHANNELS, SAMPLE RATE 250KS/S, VOLTAGE: 0 – 15V $\pm$ (2mV+1%), CURRENT SENSE: 10uV-65mV $\pm$ (10uV+1%) DIGITAL CHANNELS: 16 CHANNELS SAMPLE RATE 1MS/S, VOLTAGE RANGE 1.8-5V

Multi-channel fixtures

EXTERNAL SHUNT PAM WITH DIMM FIXTURE

Connected to DIMM adaptor board.

Allowing analysis of RAM power consumption.

Supports 50mV current sense resistors.



60W DUAL RAIL PROGRAMMABLE POWER SUPPLY

[Find out more](#) >



12V and 3.3V/5V dual rail supply for SSDs, HDDs and beyond.

Fully compatible with Power Studio and automated power capture.

Plug-and-play fixturing for many interfaces.

HD PPM: USB 2.0 AND 100Mb ETHERNET CONNECTIVITY, 2 PROGRAMMABLE OUTPUTS, 0-14.4V AND 0-6V. 1024 PATTERN POINTS PER CHANNEL, 1V/US NO-LOAD SLEW. SAMPLE RATE 250KS/S, VOLTAGE: 0 – 14.4V $\pm$ (1%), CURRENT: 0-1mA $\pm$ (2uA+2%) 1mA-4A $\pm$ (2mA+1%)

Programmable Power Modules

6-PORT RACK-MOUNTED UNIT

[Find out more](#) >



HD PPM: 6 INDIVIDUAL PPM PORTS IN A 1U RACK CHASSIS. INDIVIDUAL 100Mb ETHERNET CONNECTIVITY FOR EACH PORT

GEN5 SFF FIXTURE (SAS/SATA/U.2/U.3)

[Find out more](#) >

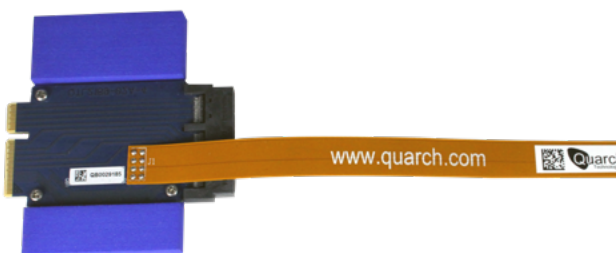


SFF FIXTURES: SUPPORTS SAS, SATA AND NVME (U.3 AND U.2) DEVICES USING SFF-8639 CONNECTORS. SUPPORTS 12V/5V AND 12V/3V3 RAILS VIA A JUMPER SELECTION. SUPPORTS POWER INJECTION SYNC.

Storage Power Analysis

GEN6 EDSFF FIXTURES

[Find out more](#) >

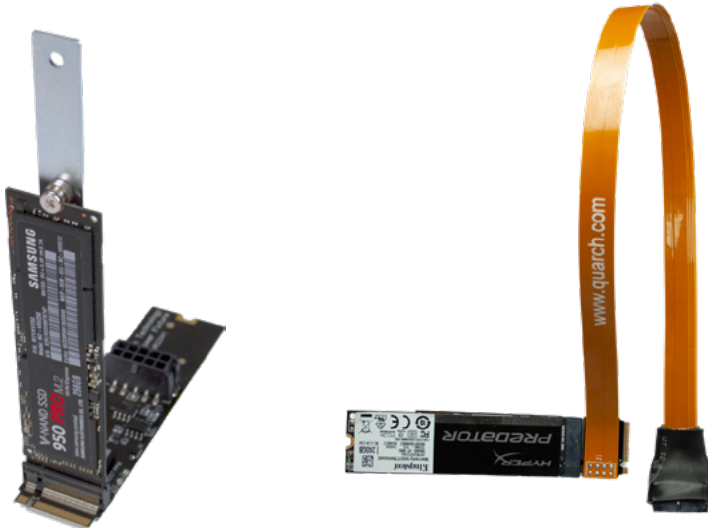


Interposer and flex cable allows power testing within a standard EDSFF enclosure.

Options available to support all major E1.x and E3.x drive sizes.

GEN5 M.2 M-KEY FIXTURES

[Find out more](#) >



Vertical and horizontal versions available to fit in restricted spaces.

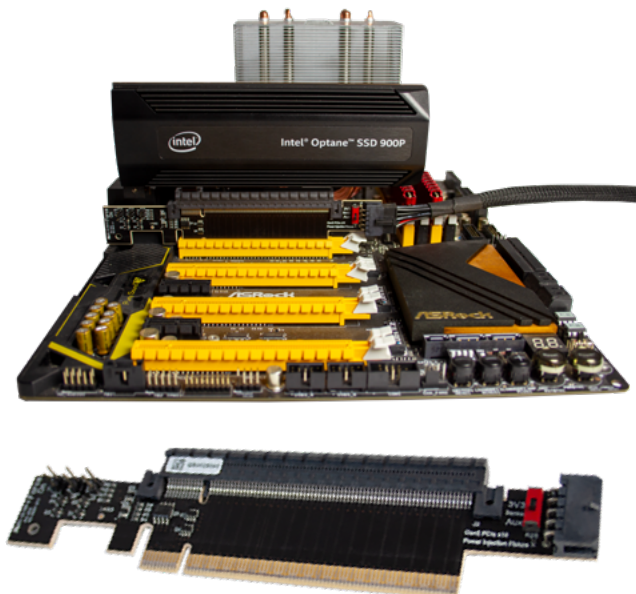
Supports SSDs and other M-Key compatible devices.

M.2 FIXTURES: SUPPORTS SATA AND NVME DEVICES USING M.2 M-KEY CONNECTORS. SUPPORTS 12V AND 3V3 RAIL. SUPPORTS POWER INJECTION SYNC.

Storage and beyond

GEN6 AIC X16 SLOT FIXTURE

[Find out more](#) >



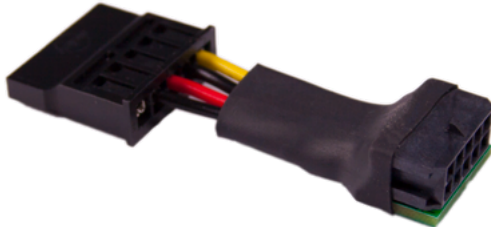
Supports up to Gen6 speeds and x16 lane width.

Power Injection Sync can be disabled by jumper on a per-rail basis.

AIC FIXTURE: 12V / 3V3 RAILS SUPPORTED. 3V3 AND 3V3_AUX BOTH FED FROM THE SAME 3V3 PPM OUTPUT. SWITCH TO SELECT VOLTAGE MEASUREMENT SOURCE (3V3/3V3_AUX). JUMPERS TO DISABLE POWER INJECTION SYNC ON A PER-RAIL BASIS.

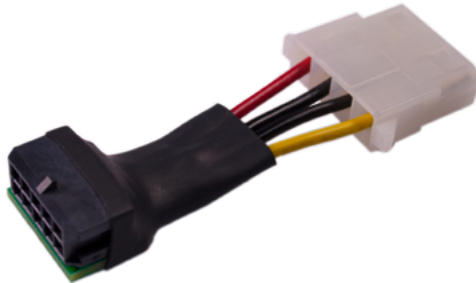
PC POWER INJECTION ADAPTERS

[Find out more](#) >



Vertical and horizontal versions available to fit in restricted spaces.

[Find out more](#) >



Supports SSDs and other M-Key compatible devices.

HD ADAPTERS: 12V/5V ADAPTERS FOR HD PPM (SUPPORTS OLDER XML PPM WITH ADDITIONAL CABLE)

Storage and beyond

BREAKER INJECTION ADAPTER

[Find out more](#) >



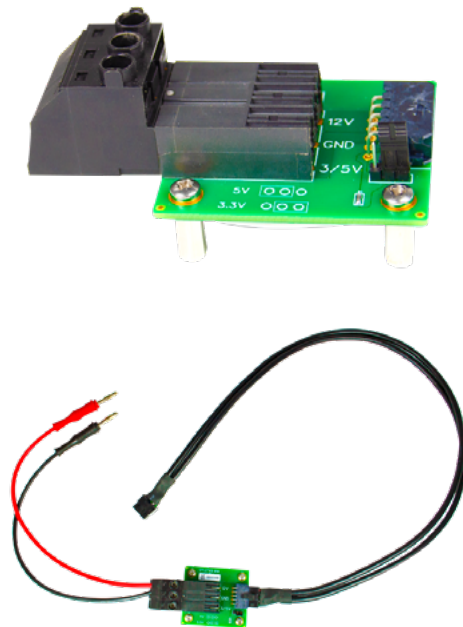
Allows a PPM to inject/measure power on AIC x8 and x16 'Breaker' products.



BREAKER ADAPTER: FITS AIC/SLOT BREAKERS FROM GEN3-GEN6

SCREW TERMINAL FIXTURE

[Find out more](#) >



Connect a PPM into a custom wiring loom.

Pluggable screw terminal for easy connection.

HD ADAPTERS: 12V/5V ADAPTERS FOR HD PPM. PLUGGABLE SCREW TERMINAL FOR TWO POWER RAILS AND GROUND. JUMPER FOR 12V/5V OR 12V/3V3 SELECTION

Storage and beyond

CALIBRATION KIT

[Find out more](#) >



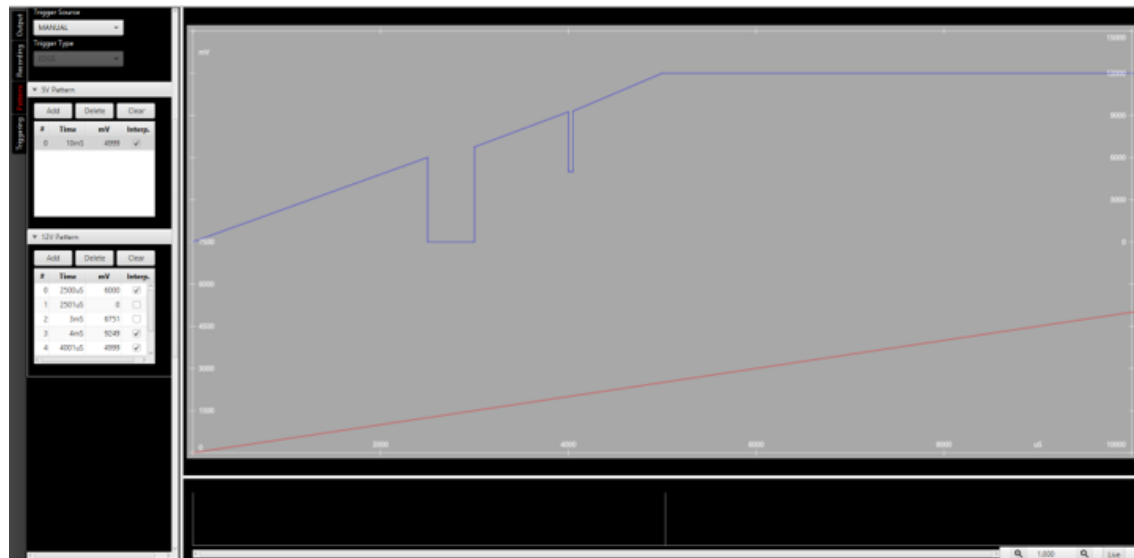
HD PPM devices can be calibrated on site, or at a certified 3rd party calibration house.

Requires Quarch Calibration Kit, Keithley 2460 SMU and a PC with Python 3.

CALIBRATION KIT: ALLOWS CALIBRATION OF QTL1999 AND QTL1995 PRODUCTS. MATCHING FACTORY CALIBRATION REQUIRES A CALIBRATED KEITHLEY 2460 (NOT SUPPLIED) AND AMBIENT TEMPERATURE CONTROLLED AT 25C

DUAL RAIL INDEPENDENT MARGINING CONTROL

Up to 1024 pattern points per rail, at 1uS resolution for detailed power scenarios.

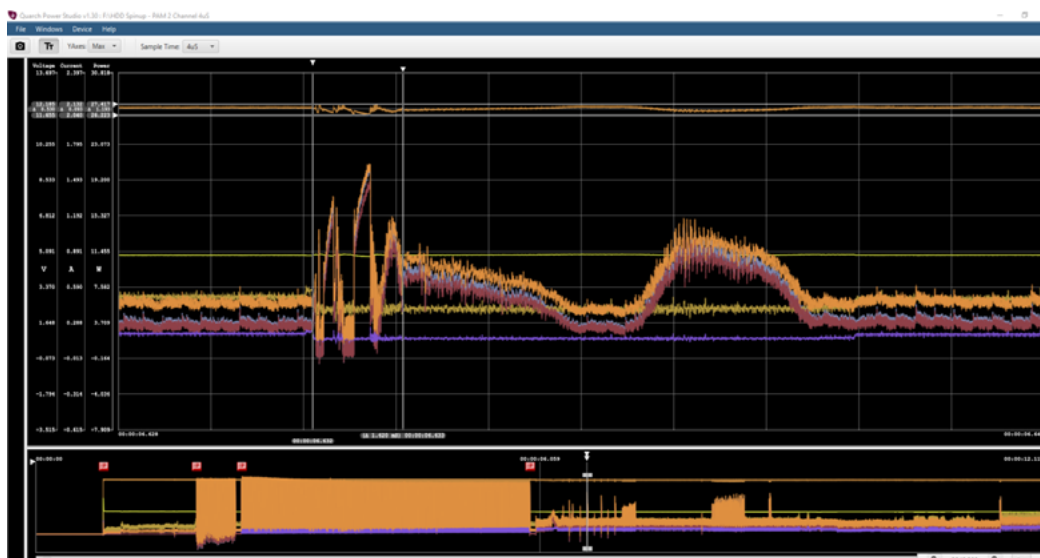


Quarch Power Studio (QPS)

POWER UP ANALYSIS

View the detailed results of a device initialization, including the effects of custom voltage ramps during power up.

[Find out more](#)



SINGLE PHASE AC PAM (IEC C14 CONNECTIONS)

[Find out more](#) >



AC analysis devices have inbuilt USB/LAN ports and do not require a separate controller.

Plug-and-play connection avoids high voltage safety risks.

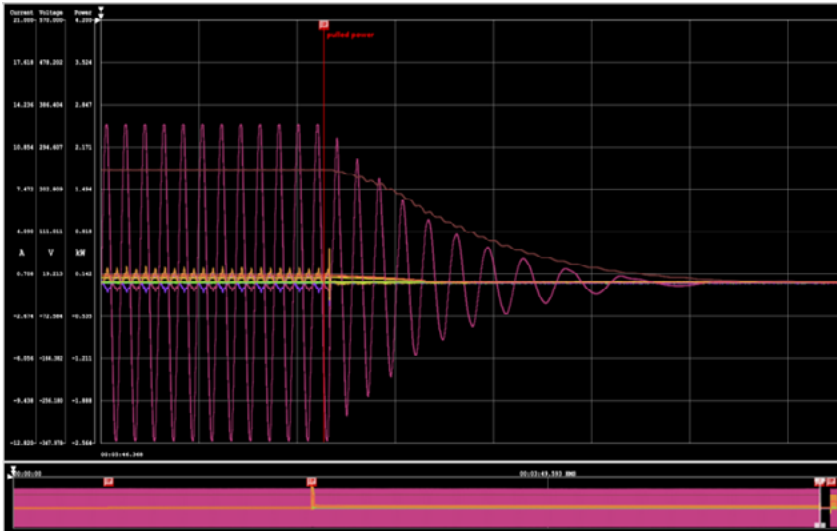
IEC PAM: Single IEC 60320 C14 10A Fused Input, 3 Individually Measured IEC 60320 C13 Outputs, Sample Rate 8KS/s, Voltage: $\pm 495.5V$ Peak 50Vac-270Vac $\pm 0.5\%$, Current: 100mA-44A $\pm (10mA + 0.5\%)$

AC Power Analysis

SUPPORTS UP TO 3 DEVICES AT THE SAME TIME



Suitable for testing everything from consumer electronics to high end server systems.

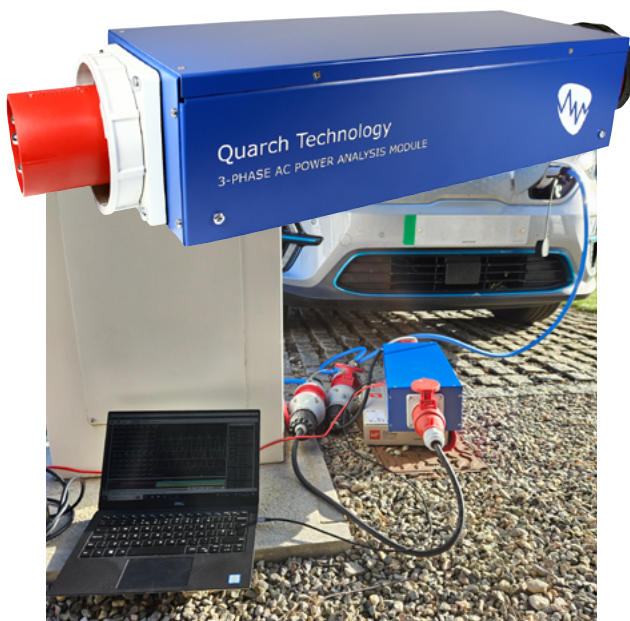


AC products share the same comprehensive analysis and automation tools.

Analyze frequency, phase, THD, power factor and more.

AC Power Analysis

Supports analysis of AI systems, server racks, AC motors, EV charging and much more



Multiple variants are available for US and EU style connectors

Delta and Star topology supported with plug-and-play connection

[Find out more](#) >

16A 3P+N+E 415V

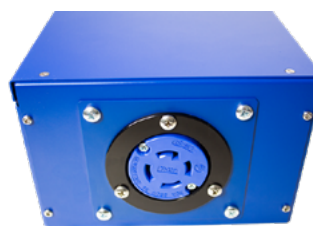
30A L15 415V

30A L21 415V

32A 3P+N+E 415V

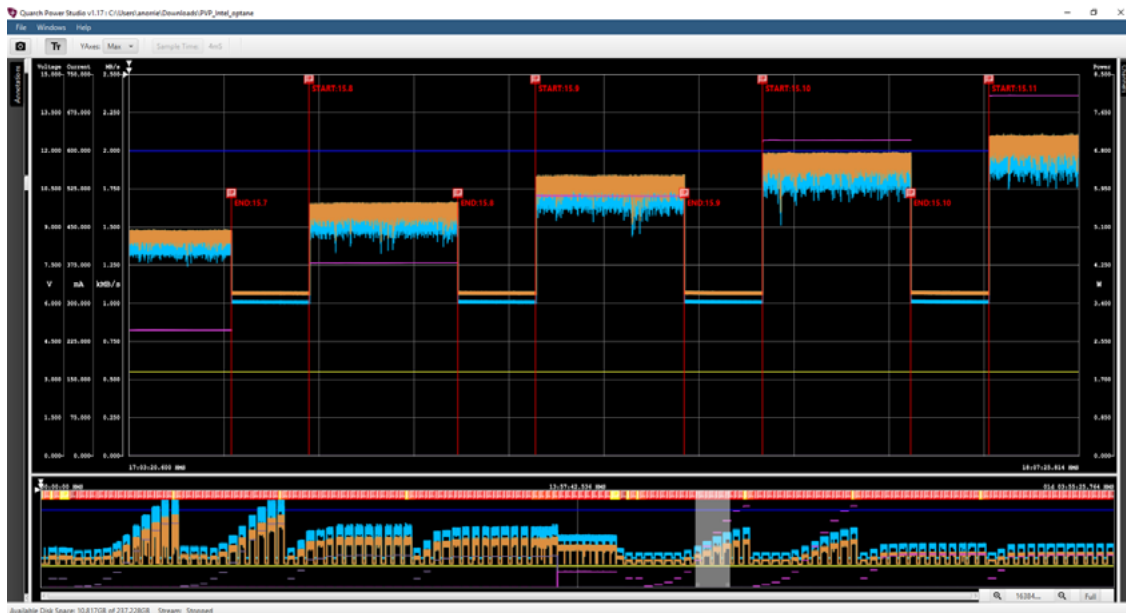
60A 3P+E 250V

63A 3P+N+E 415V



LONG TERM, HIGH RESOLUTION CAPTURE

Record for hours or days and still zoom in to the smallest details. Add annotations and notes.



Quarch Power Studio (QPS)

ANALOG, DIGITAL AND CUSTOMER USER CHANNELS

[Find out more](#)

See the entire picture, including custom user channels for your own data (ie: temperature, performance, speed).



SIMPLE AUTOMATION API

[Find out more >](#)

Automate capture, annotations, custom channels, statistic calculations and more. Code examples: www.quarch.com/support/application-note.

```
# If you know the name of the module you would like to talk to then you can skip module selection and hardcode the string.
moduleStr = "USB:QTL1999-05-005"

# Convert module to Quarch module
print("\n\nConnecting to the selected device")
myQuarchDevice = getQuarchDevice(myDeviceID, ConType="QPS")

# Create the device connection, as a QPS connected device
myQpsDevice = quarchQPS(myQuarchDevice)
myQpsDevice.openConnection()

# Prints out connected module information
print("\nConnected to module: " + myQpsDevice.sendCommand("hello?"))

# Setup the voltage mode and enable the outputs
setupPowerOutput(myQpsDevice)

# Set the averaging rate for the module. This sets the resolution of data to record.
# This is done via a direct command to the power module.
print(myQpsDevice.sendCommand("record:averaging 32k"))

# Start a stream, using the local folder of the script and a time-stamp file name in this example
fileName = time.strftime("%Y-%m-%d-%H-%M-%S", time.gmtime())
myStream = myQpsDevice.startStream(os.path.join(filePath, fileName))
print("File output path set: " + str(os.path.join(filePath, fileName)))
```

Quarch Power Studio (QPS)

EASY SHARING AND POST PROCESSING

[Find out more >](#)

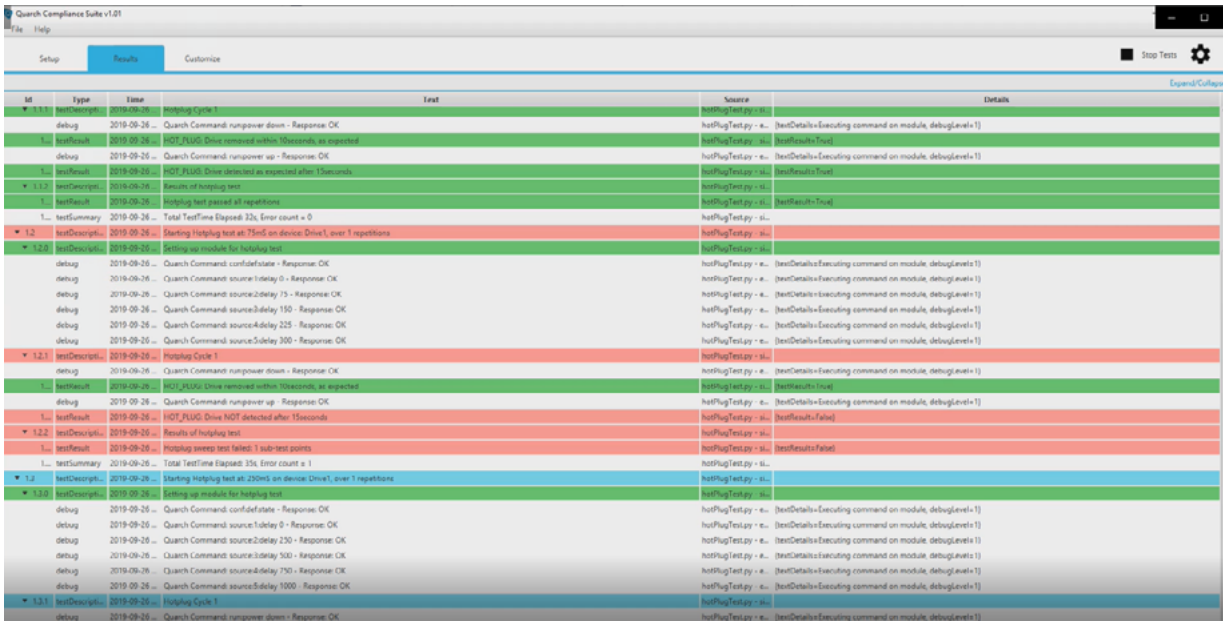
Share full traces or smaller sections. Export to CSV format for custom post-processing.

	A	B	C	D	E	F	G	H
1	Time nS	POWER_1 voltage mV	POWER_1 current uA	POWER_2 voltage mV	POWER_2 current uA	POWER_1 power uW	POWER_2 power uW	Tot power uW
2	1933312000	11766	446522	4911	591102	5253777	2902901	8156678
3	1933316000	11712	480158	4882	200869	5623610	980642	6604252
4	1933320000	11577	1785342	4863	260391	20668904	1266281	21935185
5	1933324000	11761	1771129	4858	352647	20830248	1713159	22543407
6	1933328000	11544	1616204	4839	283075	18657458	1369799	20027257
7	1933332000	12094	1986319	4848	565698	24022541	2742503	26765044
8	1933336000	12026	816755	4902	639467	9822295	3134667	12956962
9	1933340000	11500	98024	4892	222446	1127276	1088205	2215481
10	1933344000	11655	1621986	4868	256749	18904246	1249854	20154100
11	1933348000	11775	1593033	4844	273577	18757963	1325206	20083169
12	1933352000	11558	1888446	4834	321572	21826658	1554479	23381137
13	1933356000	11987	1831120	4844	479390	21949635	2322165	24271800
14	1933360000	12147	1289066	4873	673031	15658284	3279680	18937964
15	1933364000	11582	158014	4906	353108	1830118	1732347	3562465
16	1933368000	11775	1083744	4877	264079	12761085	1287913	14048998
17	1933372000	11529	1585082	4853	214931	18274410	1043060	19317470
18	1933376000	11630	1997881	4848	326044	23235356	1580661	24816017
19	1933380000	11809	1708864	4829	352416	20180211	1701816	21882027
20	1933384000	12127	1804635	4858	663395	21884808	3222772	25107580
21	1933388000	11756	418725	4911	517335	4922531	2540632	7463163
22	1933392000	11717	505277	4887	220372	5920330	1076957	6997287
23	1933396000	11577	1775184	4863	273254	20551305	1328834	21880139
24	1933400000	11741	1753029	4853	342688	20582313	1663064	22245377
25	1933404000	11534	1645339	4839	273116	18977340	1321608	20298948
26	1933408000	12084	2008944	4848	559290	24276079	2711437	26987516
27	1933412000	12050	828208	4902	655972	9979906	3215574	13195480
28	1933416000	11500	74800	4897	222538	860200	1089768	1949968
29	1933420000	11654	1576782	4868	274788	18884781	1461618	19745414

QUARCH COMPLIANCE SUITE

[Find out more](#)

Run standard automated workload, voltage margining tests and more.



ID	Type	Time	Test	Source	Details
1.1.1	testSummary	2019-09-26 ...	Hotplug Cycle 1	hotplugTest.py - si	testDetails=Executing command on module, debugLevel=1
1.1.1	testResult	2019-09-26 ...	Quarch Command: runpower down - Response: OK	hotplugTest.py - si	testResults=Test
1.1.1	testResult	2019-09-26 ...	HOT_PLUG: Drive removed within 15seconds, as expected	hotplugTest.py - si	testResults=Test
1.1.1	testSummary	2019-09-26 ...	Quarch Command: runpower up - Response: OK	hotplugTest.py - si	testDetails=Executing command on module, debugLevel=1
1.1.1	testResult	2019-09-26 ...	HOT_PLUG: Drive detected as expected after 15seconds	hotplugTest.py - si	testResults=Test
1.1.1	testSummary	2019-09-26 ...	Results of hotplug test	hotplugTest.py - si	testResults=Test
1.1.1	testResult	2019-09-26 ...	Hotplug test passed all repetitions	hotplugTest.py - si	testResults=Test
1.1.1	testSummary	2019-09-26 ...	Total TestTime Elapsed 23s, Error count = 0	hotplugTest.py - si	testResults=Test
1.2	testSummary	2019-09-26 ...	Starting Hotplug test at 75mV on device Drive1, over 1 repetitions	hotplugTest.py - si	testResults=Test
1.2.1	testSummary	2019-09-26 ...	Setting up module for hotplug test	hotplugTest.py - si	testResults=Test
1.2.1	testSummary	2019-09-26 ...	Quarch Command: confidstate - Response: OK	hotplugTest.py - si	testDetails=Executing command on module, debugLevel=1
1.2.1	testSummary	2019-09-26 ...	Quarch Command: source1:delay 0 - Response: OK	hotplugTest.py - si	testDetails=Executing command on module, debugLevel=1
1.2.1	testSummary	2019-09-26 ...	Quarch Command: source1:delay 15 - Response: OK	hotplugTest.py - si	testDetails=Executing command on module, debugLevel=1
1.2.1	testSummary	2019-09-26 ...	Quarch Command: source1:delay 150 - Response: OK	hotplugTest.py - si	testDetails=Executing command on module, debugLevel=1
1.2.1	testSummary	2019-09-26 ...	Quarch Command: source1:delay 225 - Response: OK	hotplugTest.py - si	testDetails=Executing command on module, debugLevel=1
1.2.1	testSummary	2019-09-26 ...	Quarch Command: source1:delay 300 - Response: OK	hotplugTest.py - si	testDetails=Executing command on module, debugLevel=1
1.2.1	testSummary	2019-09-26 ...	Hotplug Cycle 1	hotplugTest.py - si	testResults=Test
1.2.1	testSummary	2019-09-26 ...	Quarch Command: runpower down - Response: OK	hotplugTest.py - si	testDetails=Executing command on module, debugLevel=1
1.2.1	testSummary	2019-09-26 ...	HOT_PLUG: Drive removed within 15seconds, as expected	hotplugTest.py - si	testResults=Test
1.2.1	testSummary	2019-09-26 ...	Quarch Command: runpower up - Response: OK	hotplugTest.py - si	testDetails=Executing command on module, debugLevel=1
1.2.1	testSummary	2019-09-26 ...	HOT_PLUG: Drive NOT detected after 15seconds	hotplugTest.py - si	testResults=False
1.2.1	testSummary	2019-09-26 ...	Results of hotplug test	hotplugTest.py - si	testResults=False
1.2.1	testSummary	2019-09-26 ...	Hotplug source test failed, 1 sub-test points	hotplugTest.py - si	testResults=False
1.2.1	testSummary	2019-09-26 ...	Total TestTime Elapsed 25s, Error count = 1	hotplugTest.py - si	testResults=False
1.2	testSummary	2019-09-26 ...	Starting Hotplug test at 200mV on device Drive1, over 1 repetitions	hotplugTest.py - si	testResults=Test
1.2.1	testSummary	2019-09-26 ...	Setting up module for hotplug test	hotplugTest.py - si	testResults=Test
1.2.1	testSummary	2019-09-26 ...	Quarch Command: confidstate - Response: OK	hotplugTest.py - si	testDetails=Executing command on module, debugLevel=1
1.2.1	testSummary	2019-09-26 ...	Quarch Command: source1:delay 0 - Response: OK	hotplugTest.py - si	testDetails=Executing command on module, debugLevel=1
1.2.1	testSummary	2019-09-26 ...	Quarch Command: source1:delay 250 - Response: OK	hotplugTest.py - si	testDetails=Executing command on module, debugLevel=1
1.2.1	testSummary	2019-09-26 ...	Quarch Command: source1:delay 500 - Response: OK	hotplugTest.py - si	testDetails=Executing command on module, debugLevel=1
1.2.1	testSummary	2019-09-26 ...	Quarch Command: source1:delay 750 - Response: OK	hotplugTest.py - si	testDetails=Executing command on module, debugLevel=1
1.2.1	testSummary	2019-09-26 ...	Quarch Command: source1:delay 1000 - Response: OK	hotplugTest.py - si	testDetails=Executing command on module, debugLevel=1
1.2.1	testSummary	2019-09-26 ...	Hotplug Cycle 1	hotplugTest.py - si	testResults=Test
1.2.1	testSummary	2019-09-26 ...	Quarch Command: runpower down - Response: OK	hotplugTest.py - si	testDetails=Executing command on module, debugLevel=1

Automation options

QIS & QUARCHPY

[Find out more](#)

Java Instrumentation Server allowing simple TCP based control of any Quarch Power Device. Full Python API available for fast integration.

```

1  from quarchpy.device import *
2
3  # Specify the module to control
4  myDeviceID = "USB:QTL1999-05-005"
5
6  # Connect to the module
7  myQuarchDevice = getQuarchDevice(myDeviceID, ConType = "QIS")
8
9  # Convert the base device class to a power device, which provides additional controls, such as data streaming
10 myPowerDevice = quarchPPM(myQuarchDevice)
11
12 module.startStream('Stream1.csv')
13

```

Download QIS from: quarch.com/downloads

Download quarchpy from: pypi.org/project/quarchpy/

COMPREHENSIVE SSD TESTING

This enclosure-based tester from Quarch combines all the major elements you need to test an SSD:

- Full control of data lanes, power, and sidebands (As with our breakers)
- Power and digital sideband capture (As with our PAM range)
- Power injection port for voltage margining (with a PPM)
- Controllable cooling fan

Putting this all into a single tester allows us to combine all the features while minimising the signal path. There is no re-driving or re-timing in the PCIe signal path, so the SSD can be tested as if it were directly connected to the host.



Gen6 Aon Desktop Drive Enclosure



The enclosure is designed to connect to a Serial Cables host card or another MCIO-based controller.

A huge range of tests can be run (and easily automated):

- Hot-plug timing sequences, including pin-bounce
- Sideband failure
- Lane width restriction
- Data and sideband glitch
- Power loss, brownout, and crowbar
- Power Vs Performance capture
- Sideband capture and debugging