

Low cost, multi-channel, and space-efficient.

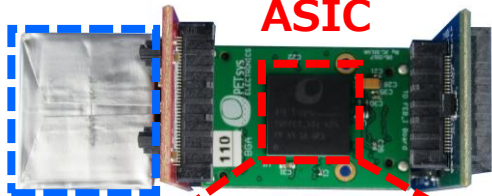
**Temperature compensation
Built-in programming**

The ASIC chip for MPPC array readout integrates 64 channels of DISCRI, QDC, and TDC, enabling the creation of an imaging system with up to 491,520 channels. It offers exceptional time resolution, high counting rate performance, and outstanding cost efficiency. This makes it ideal for applications in high-energy physics, astrophysics, nuclear medicine, material and life sciences, and non-destructive testing, driving innovation across these fields.

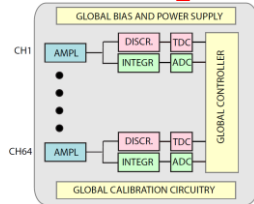
Scintillator + MPPC (8x8)

The scintillator is changeable.

ASIC

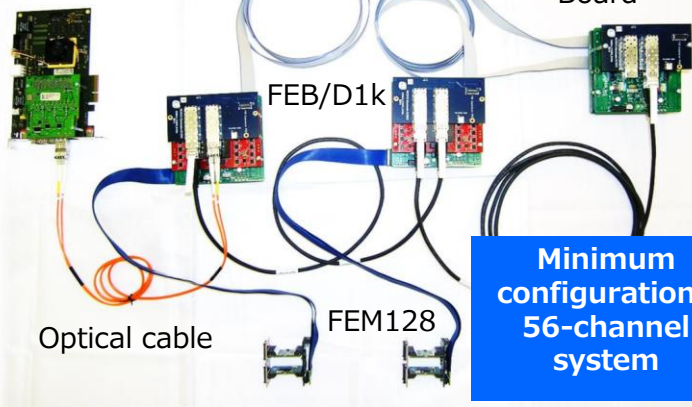


Block Diagram



DAQ Board

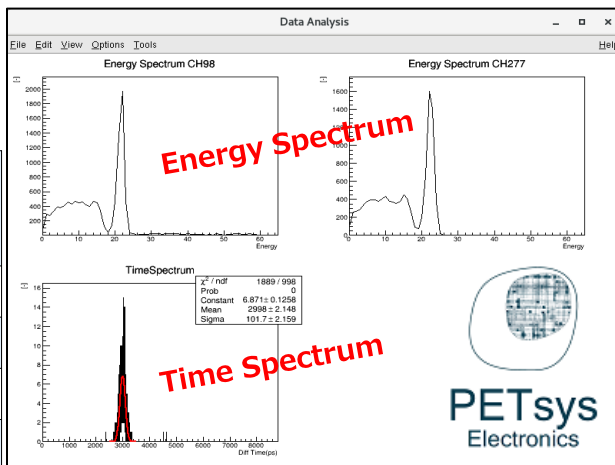
Clock&Trigger Board



**Minimum configuration 2
56-channel system**

System configuration example

Photodetector Semiconductor Element (MPPC)	Hamamatsu Photonics 8x8 array S13361-350Ax-08
Scintillator	LYSO 3 x 3 x 20 mm ²
Radiation source	²² Na
ASIC	TOFPET2 ASIC by PETsys Electronics.
Operating System	The English translation for your text is: Linux CentOS 7 Recommended Image Resolution: HD (1366x768) or higher.
Data Collection Software	Platform : Python, C++ Sample source code available.
Measurement	QDC mode List data output by selecting TOT mode.
Communication I/F	Ethernet TCP/IP 1000Base-T Maximum output data rate: 3.2 Gb/s.
Power consumption	+12V, Up to 4.0A



**Up to 491,520 channels
system construction
possible**

Our company has exclusive rights to sell PETsys Electronics products in Japan, and we are introducing these products to those who wish to build measurement systems with low cost, multiple channels, and space efficiency.

<https://www.petsyselectronics.com/web/public/team>

*Images is for illustration purpose.

*Please note that contents may change without prior notice.

TechnoAP Co., Ltd.

2976-15 Mawatari, Hitachinaka, Ibaraki, Japan

Postcode:312-0012 info@techno-ap.com

TEL:+81-29-350-8011 FAX: +81-29-352-9013



<http://www.techno-ap.com>



20230908