ORTEC

digiBASE-E

Digital MCA in PMT base

Digital gamma spectrometer integrated into a 14-pin PMT base for NaI(Tl), $LaBr_3$(Ce) and other scintillation detectors.



Detector type	Spectrum channels	Weight
Scintillators including NaI(Tl) and $LaBr_3$(Ce) [1]	**256–2,048** [1]	**.36 kg net** [1]

Specifications

DETECTOR

Detector type	Scintillators including NaI(Tl) and $LaBr_3$(Ce)	[1]

PERFORMANCE

Maximum throughput	196 kcps at 532 kcps input, with appropriate scintillator	[1]

ELECTRONICS & SIGNAL

Spectrum channels	256–2,048	[1]
Detector bias	0 to +1,200 V, 1.25 V steps	[1]

CONNECTIVITY & INTERFACE

Communication	Ethernet, TCP/IP and RJ45	[1]

POWER & BATTERY

Power supply	≤3 W via Power over Ethernet (PoE)	[1]

MECHANICAL

Dimensions	Ø6.38 × 11.94 cm	[1]
Weight	0.36 kg net	[1]

GENERAL

PMT base	14-pin base for most 10-stage PMTs	[1]
Acquisition modes	PHA and list mode; the external gate input can also act as a 32-bit event counter	[1]
List-mode timestamp	160 ns timestamp accuracy	[1]
Synchronization	Up to 12 units; time correlation no more than 100 ms	[1]

Sources

[1] digiBASE-E High Performance, Digital Gamma Spectrometer
RTEC (AMETEK) · product-page · Highlights; Specifications tab – Performance; Highlights; Specifications tab – Interface · checked 2026-10-16
https://web.archive.org/web/20261016000000/https://www.ortec-online.com/products/electronic-instruments/phot…

Every value is taken from the manufacturer's own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer's published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.