BRIGHTSPEC

bMCA-Ethernet

bMCA with Ethernet and PoE instead of USB, for remote installation

The Ethernet version of the bMCA: a compact digital MCA in the photomultiplier tube socket for scintillation detectors. With Ethernet instead of USB the device can be installed far from the PC, and it is powered over the network cable (Power over Ethernet).



Spectrum channels	Weight
Up to 4,096 [2]	**Approx. 120 g** [1]

Specifications

DETECTOR

Compatible detectors	Scintillation detectors with a standard 14-pin photomultiplier, e.g. NaI(Tl), CsI(Tl), $CeBr_3$, $LaBr_3$(Ce) and $LaCl_3$(Ce)	[1]

ELECTRONICS & SIGNAL

Spectrum channels	Up to 4,096	[2]
Detector high voltage	Built-in, 0 to +1,500 V in 4,096 steps	[1]
Digital filter rise time	0.1–12 µs in 0.2 µs steps; flat top 0.1–8.0 µs in 0.1 µs steps (trapezoidal shaper)	[1]

CONNECTIVITY & INTERFACE

Communication	Ethernet with fixed IP address or DHCP	[1]

POWER & BATTERY

Supply voltage	Power over Ethernet (PoE); cables and PoE injector optional	[1]

MECHANICAL

Weight	Approx. 120 g	[1]
Dimensions (H × D)	68 × 56 mm (height × diameter)	[3]

GENERAL

Acquisition modes	PHA (pulse height analysis) and MCS (multichannel scaling)	[2]

Sources

[1] **bMCA-Ethernet technical specifications (V1.3)**
BrightSpec · datasheet · p. 1, Introduction; p. 2, Technical Specifications; p. 1 and p. 2, Technical Specifications · checked 2026-10-16
https://www.brightspec.be/brightspec/downloads/bMCA_Ethernet_Spec_V1.3.pdf

[2] **bMCA-Ethernet**
BrightSpec · product-page · Product page – Main features · checked 2026-10-16
https://www.brightspec.be/brightspec/?q=node/12

[3] BrightSpec MCA Summary Table (V10, Nov 2024)
BrightSpec · catalog · MCA Summary Table V10 – Dimensions, column bMCA-E · checked 2026-10-16
https://www.brightspec.be/brightspec/downloads/BrightSpec_MCA_SummaryTable_V10b.pdf

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.