ORTEC

928 EASY-NIM

NIM mca, counter and timer

Compact NIM instrument combining a multichannel analyzer, counter, timer and ratemeter for nuclear measurement setups.



Spectrum channels
512–16,384, software selectable [1]

Weight
.9 kg net [1]

Specifications

PERFORMANCE

Dead time per event	2 µs including memory transfer (MCA)	[1]
Dead-time correction	Gedcke-Hale or ZDT (MCA)	[1]

ELECTRONICS & SIGNAL

Spectrum channels	512–16,384, software selectable	[1]
ADC conversion time	1.25 µs	[1]

COOLING

Counter capacity	32 bits	[1]

CONNECTIVITY & INTERFACE

Communication	USB 2.0	[1]

POWER & BATTERY

Power supply	Power required: +6 V 350 mA; −6 V 225 mA; +12 V 100 mA; −12 V 100 mA	[2]

MECHANICAL

Weight	0.9 kg net	[1]

ORDERING & ACCESSORIES

Included software	928: MAESTRO and front-panel software	[1]

GENERAL

Maximum counting rate	200 MHz	[1]
Number of counters	4	[1]
Number of timers	2	[1]
Module format	Single-width NIM	[1]

Module width	Single width (NIM standard), front panel 3.43 × 22.13 cm	[2]

Models

Model	Number of counters	Number of timers	Maximum counting rate	Counter capacity
928-COUNT2	2 [3]	1 [3]	200 MHz [3]	32 bits [3]
928-COUNT4	4 [3]	2 [3]	200 MHz [3]	32 bits [3]
928-MCB	None [1]	–	–	–

Model	Pulse-pair resolution	MCA function	Included software	Spectrum channels
928-COUNT2	7 ns [3]	No MCA [1]	Front-panel emulator [1]	–
928-COUNT4	7 ns [3]	No MCA [1]	Front-panel emulator [1]	–
928-MCB	–	–	MAESTRO [3]	Up to 16,384; software selectable as 512, 1,024, 2,048, 4,096, 8,192 or 16,384 [3]

Model	Dead time per event	Input signal	Dead-time correction
928-COUNT2	–	–	–
928-COUNT4	–	–	–
928-MCB	2 µs including memory transfer [3]	Positive analogue pulses, 0 to +10 V [3]	Gedcke-Hale or ZDT [1]

Sources

[1] **928 EASY-NIM Multi-Function MCA/Counter/Timer/Rate Meter**
RTEC (AMETEK) · product-page · Specifications tab – MultiChannel Buffer (928 and 928-MCB); Specifications tab – Electrical and Mechanical (All); Highlights · checked 2026-10-16
https://web.archive.org/web/20261016000000/https://www.ortec-online.com/products/electronic-instruments/mult…

[2] **ORTEC 928 EASY-NIM manual**
ORTEC (AMETEK) · manual · Manual, Specifications – Dimensions; Manual, Specifications – Power Required · checked 2026-10-16
https://edge.sitecorecloud.io/ametekinc1236b-ametekb19a-productiondcfa-1d17/media/Project/Ametek/ortec-onlin…

[3] **EASY-NIM 928 Suite – High Performance, Multi-Function Nuclear MCA/Counter/Timer/Rate Meter**
RTEC (AMETEK) · brochure · p. 4, Counter/Timer/Rate Meter Specifications; p. 4, MCB Specifications (928 and 928-MCB); p. 5, Ordering In formation · checked 2026-10-16
https://edge.sitecorecloud.io/ametekinc1236b-ametekb19a-productiondcfa-1d17/media/Project/Ametek/ortec-onlin…

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.