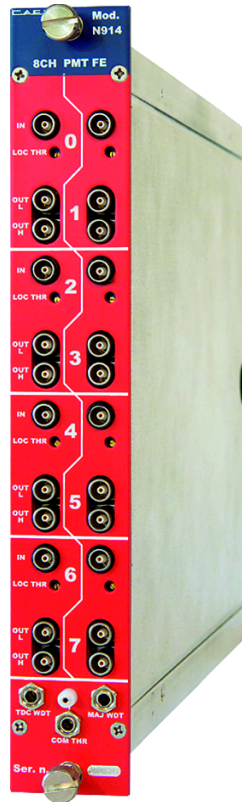


N914

8 Fold Charge Preamp / Discriminator & Linear Fan-In



Features



- Designed to process signals generated by Photomultipliers
- 8 channel charge preamplifier and integrator
- Dual sensitivity (-0.83 mV/pC and -8.3 mV/pC)
- Built-in discriminator delivers:
 - Majority output
 - LVDS signal for arrival times detection
- Sum outputs available

Description

The CAEN **Mod.N914** is a 8 channel charge preamplifier and integrator, implemented in a single-width NIM module. It is designed to process signals generated by Photomultipliers. The module is provided with LEMO 00 connectors for both input and output signals, except the T# output which is provided through a 16 pin flat cable connector. The Photomultiplier signal at the input is buffered and processed in several ways:

- The **OL#** output provides the signal processed by a gateless charge preamplifier and integrator.
- The **OH#** output provides the signal processed by a gateless charge preamplifier and integrator, followed by a 10x gain stage.
- The **OLSUM** output provides the analog sum of the OL# outputs.
- The **OHSUM** output provides the analog sum of the OH# outputs.
- The **ASUM** output provides the analog sum of the CH# inputs.
- The **MALU** output provides a step function (Majority) with a height proportional to the number of channels simultaneously over a threshold settable individually or globally.
- The **T_OUT#** output provides a discriminator output converted into a LVDS signal to be sent to a TDC for arrival times recording.

Technical Specifications

Packaging

One unit wide NIM unit

Sensitivity

- OUTL#: 0.83 mV/pC
- OUTH#: 8.3 mV/pC

TDC output width

250 ns ÷ 5 μ s

Majority width

250 ns ÷ 5 μ s

Majority step amplitude

40 mV/channel

Integrator time constant

1.2 nF // 100 k Ω

ASUM out bandwidth

150 MHz

Discriminator Sensitivity

15 mV

Ordering Options

Code	Description	RoHS
WN914WXAAAAA	N914 - 8 fold Photomultiplier Pulse Processor	RoHS

Related Products

NIM8305



2 Slot Switching 450 W Mini Crate

NIM8303



5U 12 slot 300/600 W Crate

NV8020A



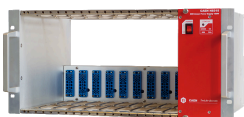
7U CRATE VME/NIM 8 slot VME64 365W, 5 slot NIM 150W

NIM8302P



5U 5 slot 150 W Portable Crate

NIM8302



5U 10 slot 150 W Compact Crate

NIM8306



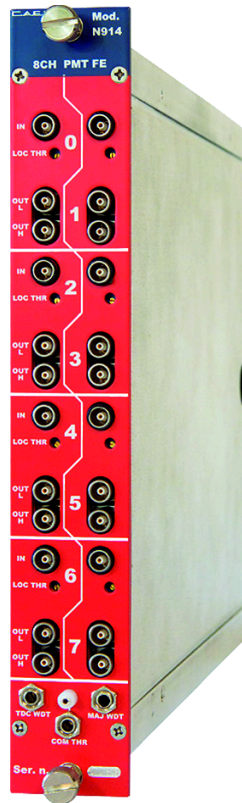
2 Slot Switching 750 W Mini Crate

NIM8304



7U 12 slot smart fan unit Switching 2000 W Crate

Gallery



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