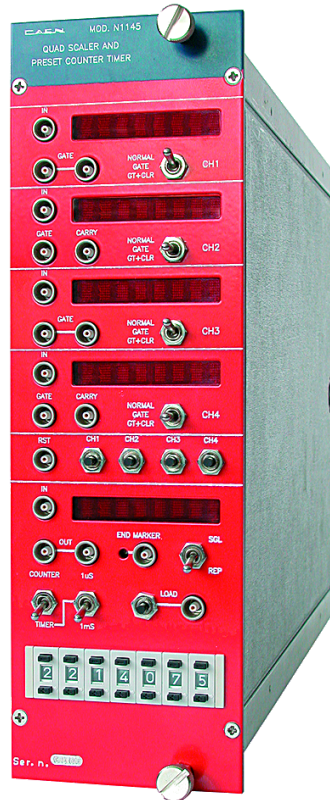


N1145

Quad Scaler And Preset Counter / Timer



Features



- Four 8-digit up-counters with 250 MHz max counting rate
- One 7-digit down-counter with 80 MHz max counting rate
- NIM and TTL inputs
- One LED display per section
- Up to three sections can be cascaded for 24-digit counting
- Frequency and frequencies ratio measurements
- Individual GATE and RESET per counter
- Manual or pulse triggered RESET

Description

The CAEN **Mod. N1145** is a **double unit NIM module that includes four independent 8-digit counters** each with their own display and can accept up to **250-MHz input rates**. These counters can be cascaded to increase the word length to 16-digits for two counters, and 24-digits for three counters. Counters 2 and 4 have a "Carry" or overflow output to allow the cascading of the counters. Counters 1 and 3 have a set of bridged gate connectors to allow a single gate to be used on multiple counters. An 80-MHz fifth counter with its own display can be used as a timer, counter, rate divider, or delay.

Technical Specifications

Packaging

Two units wide NIM module

Inputs

1 NIM/TTL level input per section, 50 Ohm impedance; min. FWHM: 2 ns (sections 1 ÷ 4), 3 ns (section 5)

Gate

Section 1 and 3: 2 bridged high-impedance NIM/TTL inputs Section 2 and 4: 50 Ohm impedance NIM/TTL input

Carry

std. NIM level; two sections can be cascaded by feeding first CARRY into the input of the second section, thereby making a 16-digit counter

Load

1 NIM/TTL input, loads counter with value set on thumb-wheel switches, min. FWHM: 3 ns

Comm. Reset

1 NIM/TTL input, 50 Ohm impedance; clears sections from 1 to 4, min. FWHM: 3 ns

Out

2 NIM outputs; are true as long as counter's value differs from zero

End marker

1 NIM output; a pulse is generated when the counter reaches zero. Pulse width can be adjusted by turning the front panel trimmer (50 ns to 1 μ s)

Max. frequency

Sections 1 to 4: 250 MHz (2 ns pulse FWHM)
Section 5: 80 MHz (3 ns pulse FWHM)

Ordering Options

Code	Description	
WN1145XAAAAA	N1145 - Quad Scaler and Preset Counter-Timer	RoHS

Related Products

NIM8305



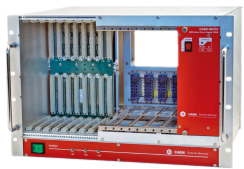
2 Slot Switching 450 W Mini Crate

NIM8304



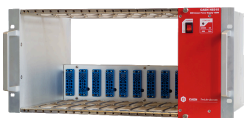
7U 12 slot smart fan unit Switching 2000 W Crate

NV8020A



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

NIM8302



5U 10 slot 150 W Compact Crate

NIM8302P



5U 5 slot 150 W Portable Crate

NIM8306

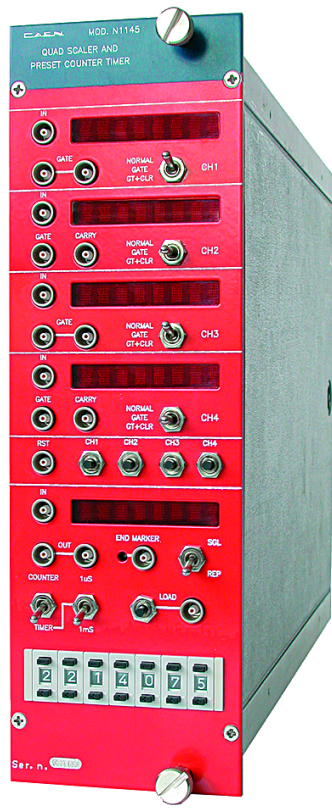


2 Slot Switching 750 W Mini Crate

NIM8303



5U 12 slot 300/600 W Crate



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