

RF007

GENERAL PURPOSE MODULES FROM RESEARCH FACILITIES SUPPORT DEPT.

OCTOBER 17, 1986

*** TRIGGER DIVIDER MODULE ***
(D. GRAUPMAN)

4 CHANNEL SINGLE WIDE NIM MODULE.
DIVIDE BY 1 - 999 SET FROM FRONT PANEL (#OUT = #IN/DIVIDE#).
- NOTE 1 AND 0 DIVIDE BY 1.
ALL INPUT AND OUTPUT SIGNALS ARE NIM.
25 ns INPUT PULSE WIDTH MINIMUM.
DELAY IN TO OUT = 10 ns.
OUTPUT PULSE WIDTH = INPUT PULSE WIDTH - 3 ns.
MAXIMUM REP RATE = 1/(INPUT PULSE WIDTH + 20 ns).
OPTIONAL ASYNCHRONOUS RESET 100 ns MINIMUM.

*** CONVERTER MODULE ***
(D. GRAUPMAN)

AVAILABLE AS EITHER A 5 CHANNEL CAMAC MODULE, OR A 10 CHANNEL
SINGLE WIDE NIM MODULE (BASICALLY 2 CAMAC MODULES SIDE BY SIDE).

THE FOLLOWING DESCRIBES THE CAMAC MODULE FROM TOP DOWN:
CHANNELS 1 AND 2 - TTL - NIM TO TTL AND TTL BAR,
ACCEPTS EITHER TTL OR NIM INPUTS, HAS COMPLEMENTARY TTL OUTPUTS.
CHANNEL 3 - TTL TO TTL BAR, A TTL INVERTER.
CHANNEL 4 - TTL TO NIM CONVERTER WITH TWO NIM OUTPUTS,
ANY UNUSED OUTPUT MUST BE TERMINATED WITH 50 OHMS.
CHANNEL 5 - TTL TO NIM CONVERTER WITH COMPLEMENTARY NIM OUTPUTS.

*** QUAD GATE GENERATOR ***
(A. BODEK (U. OF ROCHESTER), C. NEEDLES)

4 CHANNEL SINGLE WIDE NIM MODULE.
GENERATES A NIM GATE FROM A START PULSE AND A STOP PULSE.
HAS COMPLEMENTARY NIM GATE OUTPUTS, AND TTL BAR PULSE OUTPUT.
THE OUTPUTS, 4 LEMO CONNECTORS ON THE RIGHT PER CHANNEL,
STARTING FROM THE TOP ARE; NIM GATE, TTL BAR PULSE
(CORRESPONDING TO START), AND TWO NIM BAR GATE.
THE TTL BAR OUTPUT IS NOT LABELED AS SUCH ON THE PANEL.
INPUT CAN BE EITHER TTL OR NIM.

TRIGGER DIVIDER

0 0 0

IN OUT

0 9 1

IN OUT

2 9 9

IN OUT

4 3 0

IN OUT

RESET

F.S.G.

CONVERTER MODULE

TTL-NIM IN

TTL OUT

TTL OUT

TTL-NIM IN

TTL OUT

TTL OUT

TTL INVERTER

IN

OUT

TTL IN

NIM OUT

NIM OUT

TTL IN

NIM OUT

NIM OUT

QUAD GATE GENERATOR

START STOP

1

NIM

NIM

START STOP

2

NIM

NIM

START STOP

3

NIM

NIM

START STOP

4

NIM

NIM