MA202 Digital Word Generator/ Timing Simulator

The MA202 is a 16 channel digital word generator and timing simulator module that outputs timing data at a rate up to 10 MHz. A special mode allows limited operation up to 20 MHz. As a digital word generator (DWG), the MA202 can generate a serial train of parallel output words at a fixed output clock rate. As a timing simulator (TS), the MA202 can produce almost any conceivable asynchronous digital signal within the 100ns resolution. Pattern memory is 32K words.

Specifications:

Functions Performed:
- Digital Word Generator (DWG)
- Timing Simulator (TS)

Output Characteristics:
- 16 Channels all tri-stateable for DWG
- 8 Channels tri-stateable or 16 Channels nontri-stateable for TS
- Synchronized Output Signal
- Channel outputs are TTL compatible with I_{OL} =64mA & I_{OH} = -15mA

Pattern Rate:
- 10Mhz (20Mhz special mode)

User selectable clock sources:
- On board programmable to 10Mhz
- External clock input
- Backplane trigger

Dynamic Update Capability:
- Allows varying selected parameter on-the-fly

Operating Modes:
- Single or Fixed number of Cycles
- Continuous Cycle

External Inputs:
- Trigger/Gate and Clock
- TTL, CMOS or 0V Threshold
- High Z (>100KΩ) or 50Ω

Interrupt:
- End of each loop in Continuous Mode
- End of specified number of cycles in Fixed cycle mode

Temperature:
- Operating: 0°C to 50°C
- Storage: -40°C to 70°C

Power: +5V @ 500 mA
+12V @ 100 mA
-12V @ 80 mA

Ordering Information

Part Number 11027520-0001

M Module Compliance

Complies with ANSI/VITA Std. 12-1996 for doublewide MA Modules

Data Transfers: 16 bit

Interrupts: INTC

Triggers: TrigA & TrigB compatible with VXI, VME, PC, cPCI and other M Module carriers.

Applications

- Digital Word Generator
- Timing Simulator
- Multi-channel synchronous PG
- Spark Plug/Injector firing signals

Additional Information

User Manuals for C&H's VXI Based M Module carrier and this MA Module may be found on our Web Site: "http://www.chtech.com"