



Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

*InstraView*SM REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at www.instraview.com ↗

WE BUY USED EQUIPMENT

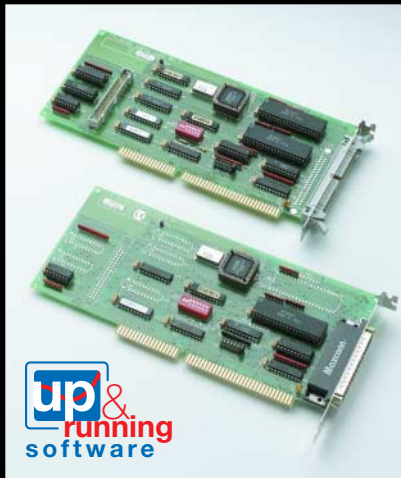
Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. www.artisanng.com/WeBuyEquipment ↗

LOOKING FOR MORE INFORMATION?

Visit us on the web at www.artisanng.com ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

Contact us: (888) 88-SOURCE | sales@artisanng.com | www.artisanng.com

CTM-05/A CTM-10



- 5/10 independent 16-bit counters
- Uses industry standard 9513 chip
- CTM-05 compatible
- Counts frequency to 7MHz
- Up/down and binary/BCD counting
- Internal 1MHz/5MHz frequency source
- Programmed frequency output
- Complex pulse generation
- One-shot or continuous outputs
- Retriggering capability
- Programmable count/gate source selection
- Programmable input/output polarities
- AT and XT interrupts
- Programmable gating functions
- 8-bit or 16-bit latched input port
- 8-bit or 16-bit latched output port
- Interrupt input channel
- 32-bit DriverLINX drivers plus bundled start-up software. Compatible with TestPoint.

5/10-Channel 7MHz Counter/Timer Boards

Functional Description

Keithley's CTM-05/A and CTM-10 are 5 and 10 channel, respectively, counter/timer boards that plug into ISA-bus compatible PCs. You can use these boards in a broad range of applications, including position, time, frequency, and period measurements, output pulse train generation, event counting and gating, and frequency generation. The CTM-05/A and CTM-10 will operate in the fastest PC's including EISA and Pentium-based systems.

The CTM boards use the powerful 9513 counter/timer chip for event counting, pulse measurement, frequency measurement, and pulse generation. The CTM-05/A uses one 9513 which contains 5 general-purpose 16-bit counters. The CTM-10 contains two 9513's. An 8-bit digital input port and an 8-bit digital output port (16 bits on CTM-10) are also available as is an external interrupt (see block diagram).

Counter inputs are software-selectable as active-high or active-low. Each counter may be gated in hardware or by software. The counters can be programmed to count up or count down in either binary or BCD. All five counters can be connected together by software to form a 32-, 48-, 64-, or 80-bit counter.

Each counter has a Load Register and a Hold Register. The Load Register is used to automatically reload the counter to a programmed value, thus controlling the count and count period. The Hold Register is used to save count values without disturbing the counting process. This permits the PC to read intermediate counts. The Hold Register may also be used as a second Load Register to generate complex waveforms.

Each counter has a single dedicated output pin. It may be configured to be turned off when the output is not of interest. Considerable versatility is available for configuring both the input and the gating of individual counters. This permits dynamic reassignment of inputs under software control, allows multiple counters to use a single input, and allows a single gate pin to control more than one counter.

Advanced Interrupt Capability

The interrupt source is software-selectable and can be set to any one of the five counter outputs or to an external interrupt input. The CTM-10 contains independent interrupt logic for both of its 5 channel halves. An interrupt is latched upon receipt of a rising edge (0 to 1 transition). The CTM-05/A and CTM-10 can be set via software to generate an interrupt on levels 3, 5, 7, 10, 11, or 15 of the host computer. For compatibility with existing applications, the CTM-05/A and the lower half of the CTM-10 also provides jumper-selectable interrupt levels of 2 through 7. Whenever any of the software-selectable interrupt levels are chosen, the jumper-selected interrupt feature is disabled.

9513 Counter/Timer Chip

The 9513 is an extremely powerful counter/timer chip. It supports 24 different modes of operation (A through X), some of which are listed below.

- Software (SW) triggered strobe without hardware gating
- Hardware (HW) triggered strobe
- Rate generator with or without HW gating
- Non-retriggerable or retriggerable one-shot
- SW-triggered delayed pulse one-shot with HW gate
- Variable duty cycle rate generator with or without gate
- Hardware-triggered delayed pulse one-shot
- SW-triggered strobe with edge gating and retriggering
- Rate generator with synchronization

ACCESSORIES AVAILABLE (CTM-10)

CAB-4037	CTM-10 Aux. Connector to D37 Male Connector
CACC-2000	CTM-10 to STA-50 Cable
STA-50	Screw Terminal Accessory Board
STP-50	Screw Terminal Panel for 50-pin cables

ACCESSORIES AVAILABLE (CTM-05/A and CTM-10)

C1800	CTM-05/A or CA4037 to STA-U or STP-37 Cable
MS-CTM-05/A	Upgrade to latest version of DriverLINX software and hardware manuals for CTM-05/A and -10
STA-U	Universal Screw Terminal Accessory
STC-37	Direct Screw Terminal Connector
STP-37	Screw Terminal Panel for 37-pin cables
TESTPOINT	TestPoint Software Package

1.888.KEITHLEY (U.S. only)

www.keithley.com

KEITHLEY

A GREATER MEASURE OF CONFIDENCE



Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

*InstraView*SM REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at www.instraview.com ↗

WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. www.artisanng.com/WeBuyEquipment ↗

LOOKING FOR MORE INFORMATION?

Visit us on the web at www.artisanng.com ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

Contact us: (888) 88-SOURCE | sales@artisanng.com | www.artisanng.com