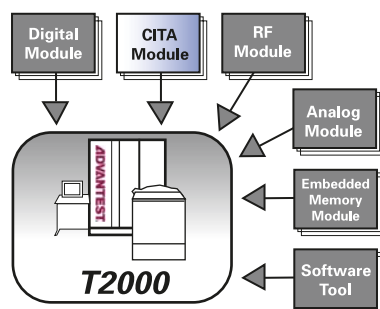


Precision Timing and Asynchronous Pattern Verification Module

CTIA Module

Ideal for PLL, Spread Spectrum Clock, Delay Line and DDR timing, PRML, source synchronous bus and serial interface testing



Femto 2000 Specifications

Performs precision timing measurements in milliseconds on up to eight channels in parallel.

General

| | |
|----------------------|---|
| Number of channels: | 2, 4, 6 or 8 (Optional AMX 270 expands up to 32 channels) |
| Max frequency: | 800MHz |
| Max data rate: | 1.6Gbps |
| Input voltage range: | -2V to +2.5V |
| Max voltage swing: | 3V |
| Input types: | Single-ended or differential (factory configured) |

Measurement

| | |
|-------------------------|--|
| Rate: | Up to 1 million/second |
| Resolution: | 1ps (400fs hardware res.) |
| Time interval accuracy: | +/-30ps (worst case across multiple channels) |
| Capabilities: | Frequency Period Pulsewidth Jitter Frequency & PW modulation PLL loop bandwidth Time interval error Risetime/falltime High/low voltage levels Multi-channel Skew Asynchronous pattern verification |

* Refer also to AMX 270 option (back) - General specifications



Femto 2000
Continuous Time Interval Analyzer

AMX 270 Active MUX Specifications

Increases channel count up to 32 inputs and adds flexible programming of single-ended (SE) and differential (DF) measurement on any channel.

General

| | |
|------------------------|---|
| Number of channels: | 16 or 32 |
| Max data rate: | 1.6Gbps |
| Max frequency: | 800MHz |
| Input operating range: | -2V to +3.5V |
| Input types: | Single-ended and differential (programmable at run-time) |
| Input termination: | 50 Ohms to programmable Vterm |
| Vterm range: | -2V to +3.5V |



The GuideTech AMX 270 option expands Femto 2000 precision measurement capabilities to 32 channels with programmable SE/DF switching