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TECHNOLOGY GROUP

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The Wayback Machine - https://web.archive.org/web/20050210125539/http://www.teradyne.com:80/militaryaerospace/digital-te…

Military and Aerospace Test Solutions

M9-Series Digital Test Instruments

Teradyne's family of instrumentation (DTI, ATI, BTI) continues to provide highly integrated commercial off the shelf VXI test solutions. The instrumentation is ideally suited to support legacy systems while simultaneously delivering test solutions for new military technologies. The capability to be deployed across multiple levels of test coupled with ease of use is why all branches of the US Military have selected Teradyne best-in-class instrumentation.

M9-Series

The M9-Series DTI is a versatile C-size VXI instruments for high-performance digital testing. Digital functional test capabilities represent fifth-generation Teradyne technology. With a VXI plug & play software driver and hardware that are compliant with VXI interface standards, M9-Series instruments are easily integrated with other instruments in VXI-based test systems.



Click on the image to enlarge

Proven techniques for fault detection and diagnosis offer higher accuracy and better resolution than other implementations, preventing repair loops and minimizing repair time. M9-Series diagnostics includes boundary-scan diagnostics, an intelligent guided probe algorithm to trace faults back to the failing electrical node, high-resolution fault-dictionary and integrated guided-probe, and fault-dictionary diagnostics to provide maximum resolution with a minimum number of probe points. The software includes links to industry standard test development tools like LASAR and VICTORY.

Teradyne's digital hardware is currently in use in the Navy's CASS and RTCASS systems, the Army's IFTE EOTF system, the Air Force's IFTE CEE and F16 CIATE systems as well as the Marine Corps' TETS system. It is a critical component of the Spectrum 9000-Series in supporting USAF Intermediate and Depot Level Programs for the C-17, A10, F16 and F22 programs.

M9-Series – "Best in Class" digital test capability:

- Speed – 50MHz across all channels
- Accuracy – precise timing resolution
- Density – up to 64 channels per card slot
- Repeatability – maintains accuracy from system-to-system
- Flexibility – adapts to any TPS development environment
- Reliability – Max uptime high MTBF, low MTTR

Card	# Channels	Max Freq	I/O VRange	Pattern Depth
M-917	64	25Mhz	-2to+5	32K
M-921	48	25Mhz	-10to+15	128K
M-925	48	25Mhz	-15to+15	128K
M-927	48	50Mhz	-10to+15	128K
M-967	16	25Mhz	-30to+30	128K

To learn more about the M9-Series, please visit M9-Series FAQs.

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Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

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