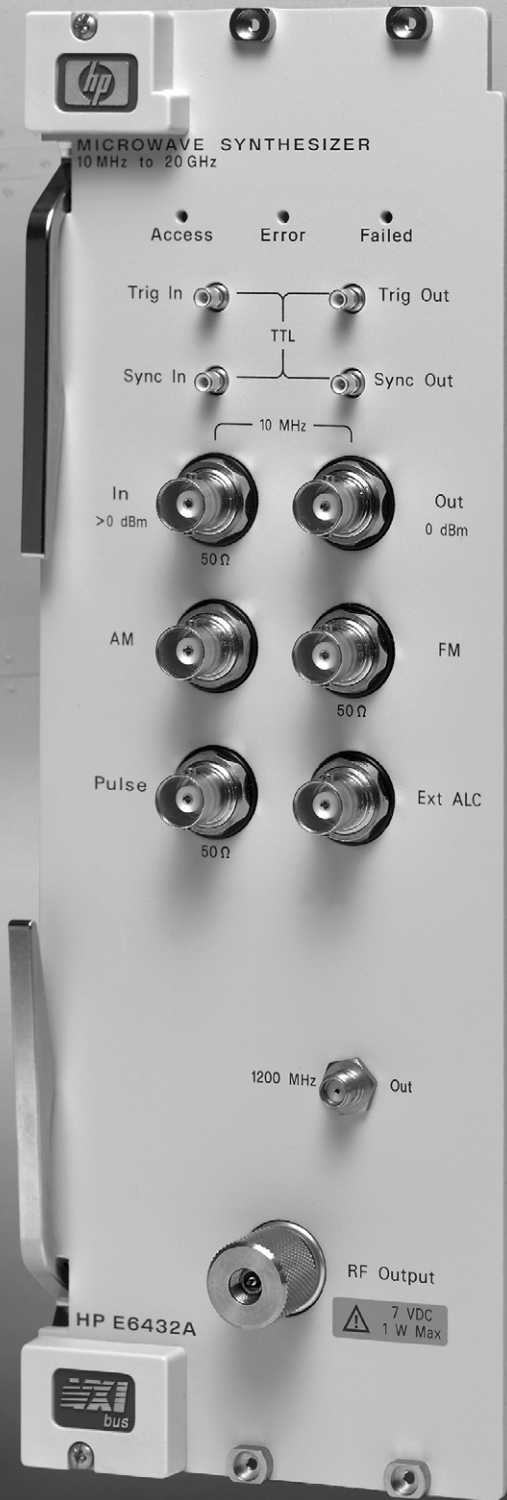


HP HP E6432A VXI Microwave Synthesizer

high performance microwave capability in VXI



HP 75000 SERIES C
MICROWAVE SYNTHESIZER
E6432A

Complies with VXIbus System Specification Rev. 1A

Manufacturer Code - 4095 Decimal
Model Code - 656 Decimal

Register - Based Servant
ATC D16 Slave: A24 D32 D16 Slave

Power Requirements

Std Configuration	+5 V	1.0 A	5.0 W
DC Current	0 A	2.0 A	0 W
Dynamic Current	1 A	0.5 A	0.5 W

WARNING:

- To prevent electrical shock, insulate the wiring for all multiplexer channels with insulation rated for the highest voltage channel.
- Turn off power to instruments and test wiring before installing or removing any modules.
- Regard all connectors being at the same potential as the highest voltage applied to any connector.

CAUTION:

- Use clean handling techniques.
- Only install with metal covers attached.

CE (SM-1-A)

Made in USA of Domestic and Foreign components

system
signal source
VXI building block

fast
flexible
rugged

As a test engineer you are the one who ensures that your product will work reliably when it reaches the market, and will continue to work in your customer's hands. Due to increasing market pressures and the need to compete effectively, you need to design and manufacture your products faster and at lower costs.

Whether you work in hi-volume manufacturing or in field environments, **HP has the solution for...**



The measurement challenge in microwave signal generation

Advanced microwave applications involve high-performance microwave frequency synthesized signals in:

- Satellite systems
- Avionics test
- Smart munitions test
- Microwave digital radio
- Radar/EW
- Manufacturing ATE
- Field repair

The measurement challenges faced by designers, manufacturers and end-users in these advanced microwave applications require fast switching speed, low phase noise, high spectral purity and synthesizer accuracy all in the small footprint required by the next generation of microwave test signals.

high performance

The solution

HP understands these challenges and has created a tool with high-performance microwave capability in the VXI format.

The HP E6432A VXI Microwave Synthesizer ushers in the next generation of microwave synthesized signal sources and is designed:

- for automated test equipment (ATE) systems.
- with a rugged design well suited for test applications ranging from high-volume automated production environments to field-test sets.
- with a small footprint for significant space and weight reduction.

“The HP E6432A provides a level of performance never before available in the VXI platform.”

Maximized throughput

A departure from previous microwave synthesizers in both its design and performance, the HP E6432A combines the speed of voltage-controlled oscillators with new patented shielding and interfacing to provide a level of performance never before available in the VXI platform. This leading-edge spectral performance combined with the fast frequency switching speed of the source, allows for significant reduction in test times.

Smaller footprint

The HP E6432A is a three-slot C-Size register-based VXI module. This makes it ideal for system integrators who want a fast, flexible signal source in the scalable VXI format. The VXI *plug&play* driver is your assurance that the source conforms to the VXI standard and will integrate into your custom, HP VEE™ or LabView™ system software.

Precision AM, FM and pulse modulation

The AM modulation has a bandwidth of 100 kHz with deep AM capability in both linear and exponential modes. The FM modulation has a bandwidth of 50 kHz to 8 MHz and sensitivity of 1 MHz/volt. And the pulse modulation features 10 nano-second rise and fall times with 15 nanosecond minimum pulse widths and 80 dB on/off ratio.



HP E6432A key features:

- 3-slot VXI register-based design
- 10 MHz to 20 GHz frequency range
- -90 to +20 dBm output power
- 1 Hz tuning resolution
- <400 μ s switching time
- AM, FM and pulse modulators standard



Key literature

The following publications provide specifications, option descriptions and application information for the HP E6432A VXI Microwave Synthesizer:

HP E6432A Technical Specifications	5968-1242E
HP E6342A Configuration Guide	5967-6272E
HP E6342A Product Overview	5967-6178E

1999 VXI Catalog	5965-5343E
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VXI Website: <http://www.hp.com/go/vxi>

For more information about Hewlett-Packard test and measurement products, applications, services, and for a current sales office listing, visit our web site, <http://www.hp.com/go/tmdir>. You can also contact one of the following centers and ask for a test and measurement sales representative.

United States:

Hewlett-Packard Company
Test and Measurement Call Center
P.O. Box 4026
Englewood, CO 80155-4026
1 800 452 4844

Canada:

Hewlett-Packard Canada Ltd.
5150 Spectrum Way
Mississauga, Ontario
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Europe:

Hewlett-Packard
European Marketing Centre
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The Netherlands
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