



# Agilent M9182A and M9183A PXI Digital Multimeters

**DISCOVER** the Alternatives...

## Industries and Applications

- Aerospace/defense
- Automotive
- Electronic test
- Medical
- Semiconductor

## Product Description

Agilent's family of PXI digital multimeters offers fast development, fast operation, and reliable results. From the high-performance Agilent M9182A, to the enhanced capabilities of the Agilent M9183A, our workhorse DMMs offer market-leading measurement speeds along with the accuracy and stability you expect from Agilent.

| Models |   |
|--------|---|
| M9182A | PXI Digital Multimeter, 6.5 Digit                       |
| M9183A | PXI Digital Multimeter, Enhanced Performance, 6.5 Digit |

## Main Features and Benefits

| Product features  | Your benefit  |
|---|---|
| Measurement speeds up to 20,000 readings/sec                      | Higher test throughput saves test time and allows the DMM to act as a low-frequency digitizer |
| Basic dcV accuracy of 30 ppm                                      | Measurements you can trust  |
| Included programming examples in C and C#                         | Reduced development time  |
| Software drivers support the most common programming environments | Work in your environment of choice and reduce development time                                |
| Soft front panels and Agilent connection expert                   | Fast and easy installation and configuration  |



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## Specifications

| Hardware                    | M9182A  | M9183A    |
|-----------------------------|---|-----------|
| Resolution                  | 6.5 digit   | 6.5 digit |
| dcV Basic 1-Year Accuracy   | 30 ppm  | 30 ppm    |
| 4.5 Digit rdg/s             | 4,500   | 20,000    |
| Standard Measurements       | dcV/I, acV/I, 2/4-wire $\Omega$ , Freq, °C/F  |           |
| Additional Measurements     | Capacitance   |           |
| Advanced Triggering         | ✓   | ✓✓        |
| Floating Isolation (Cat-II) | 300 Vrms  | 300 Vrms  |
| Connector Compatibility     | cPCI, PXI-H, PXI-1  |           |
| Software                    |   |           |
| Operating systems           | Microsoft Windows® XP<br>Microsoft Windows® Vista (32/64-bit)<br>Microsoft Windows® 7 (32/64-bit) |           |



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## Software Applications

| Software                      |  |
|-------------------------------|--|
| Software development platform | Visual Basic, C, C++, C#, .Net, LabVIEW, LabWindows/CVI, MATLAB® |
| Included device drivers       | IVI-C, IVI-COM, LabVIEW G  |
| Included GUI                  | Soft front panel   |
| Application code examples     | C/C++, Visual Basic  |



## The Modular Tangram

The four-sided geometric symbol that appears throughout this document is called a tangram. This seven-piece puzzle originated in China a few centuries ago. The goal is to create shapes—from simple to complex—that form an identifiable silhouette. As with a tangram, the possibilities may seem infinite as you begin to create a new test system. With a set of clearly defined elements—architecture, hardware, software—Agilent can help you create the system you need, from simple to complex.

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## Ordering Information

| Model                                      | Description   |
|--|---|
| <input type="checkbox"/> M9182A            | PXI Digital Multimeter, 6.5 Digit                       |
| <input checked="" type="checkbox"/> M9183A | PXI Digital Multimeter, Enhanced Performance, 6.5 Digit |
| <input checked="" type="checkbox"/>        | <i>Recommended configuration</i>                        |

| Accessories |                      |
|-------------|----------------------|
| 34137A      | Deluxe Test Lead Set |

| Related products |                              |
|------------------|------------------------------|
| M9102A           | PXI High-Density Multiplexer |
| M9120A           | PXI Matrix Switch            |

## Advantage Services: Calibration and Warranty

Agilent Advantage Services is committed to your success throughout your equipment's lifetime.

|             |  |
|-------------|--|
| R-51B-001-3 | 1 year, return-to-Agilent warranty extended to 3 years |
| R-51B-001-5 | 1 year return to Agilent warranty extended to 5 years  |

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