

# Quick Fact Sheet

## VectorStar®

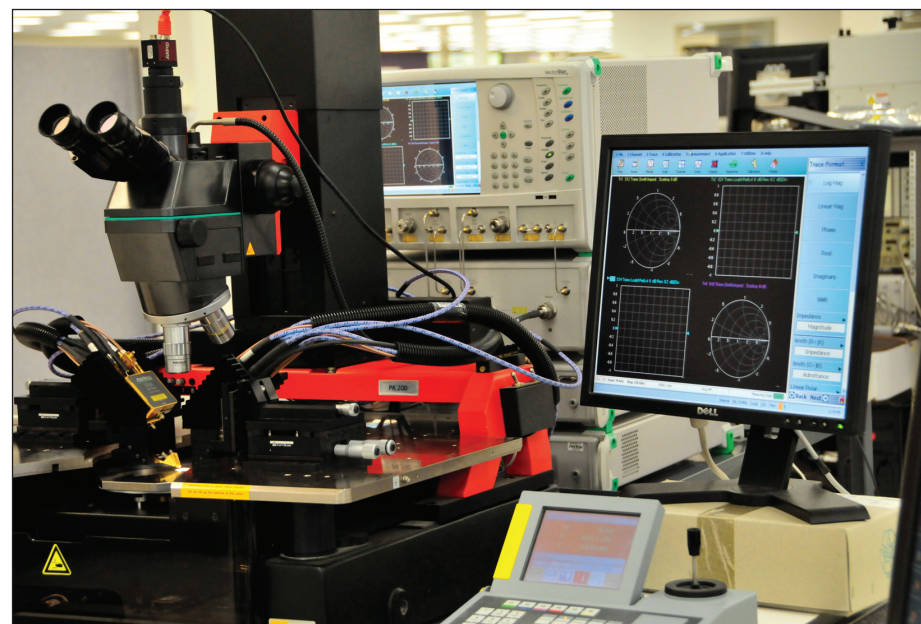
### 4 Port 110 GHz Broadband VNA

## VectorStar 4 Port Broadband System 70 kHz to 110 GHz

### 4 port version of the VectorStar Broadband ME7838A with all the performance benefits

The ME7838A4 4 port 110 GHz broadband VectorStar offers a number of industry-best performance in the most critical aspects for design engineers: best calibration and measurement stability, widest frequency range, best power range and control, and optimum on-wafer installation. When multiport or differential devices must be measured, the 2 port ME7838A can easily be upgraded to a 4 port configuration yet still maintain the key performance advantages. The ability to purchase broadband four ports now or upgrade when budget permits is another example of how VectorStar is designed to adapt to growing needs.

- Widest broadband frequency coverage for best device characterization accuracy – 70 kHz to 110 GHz (40 kHz to 125 GHz operational).
- Industry-best dynamic range for best accuracy – 107 dB at 110 GHz.
- Industry-best calibration and measurement stability minimizes the need for recalibration.
- The first millimeter-wave system with real time electronic power leveling eliminating power correction time lag found on alternative systems using software correction feedback. Provides accurate, stable power control with widest power sweep for safe, accurate gain compression measurements.
- 3743A mm-wave module uses same Nonlinear Transmission Line technology found in VectorStar harmonic sampler offering excellent raw performance.



**4 Port VectorStar ME7838A4 Broadband On-wafer System**

- Compact, lightweight mm-wave modules for easy, precise, and economical positioning on the wafer probe station – 0.6 lb and 1/50 the volume. Four port configuration can be installed on smaller economical probe stations.
- 4 port test set (MN4697C) and the master test set (3736B) can be added to standard 2 port broadband system. No need to purchase expensive 4 port test sets initially – upgrade the VectorStar Broadband system when needed and budget permits.



# Quick Fact Sheet

## VectorStar®

### 4 Port 110 GHz Broadband VNA



#### VectorStar ME7838A4 4 Port VNA Broadband System 70 KHz to 110 GHz (operational to 125 GHz) consists of:

Part Number	Qty	Description
MS4647B VNA,	1	10 MHz TO 70 GHz
With options:		
MS4640B-007		Option 7, Receiver Offset
MS4640B-070		Option 70, 70 kHz Low-end Frequency Extension
Add one of the following:		
MS4647B-051		Direct Access Loops
MS4647B-061		Active Measurements Suite, 2 attenuators
MS4647B-062		Active Measurements Suite, 4 attenuators
Add one of the following:		
MS4647B-080		Option 80, Millimeter Wave Interface (For MS4647B in ME7838D or ME7838A system)
MS4647B-081		Option 81, Millimeter Wave Interface (For MS4647B in ME7838D or ME7838A system ordered with Options 51, 61 or 62)
MS4647B-084		Option 84, Millimeter Wave Interface (For MS4647B in ME7838D or ME7838A system with Option 31 added)
MS4647B-085		Option 85, Millimeter Wave Interface (For MS4647B in ME7838D or ME7838A system with Option 31 and Option 51, 61 or 62 added)

#### Key Specifications

Frequency	70 kHz – 110 GHz (40 kHz – 125 GHz operational)
Dynamic Range	2 MHz to 54 GHz; >= 90 dB 54 to 110 GHz; 107 dB

Part Number	Qty	Description
3739C	1	Broadband and Millimeter-wave Test Set with 36 inch interface Cables.
MN4697C	1	4-Port Test Set, V (VNA must have at minimum, either Option 51, 61 or 62)
3736B	1	Master Test Set
3743A	4	3743A Frequency Extension Module (Note: Modules are ECCN 3A001 / IVL required to A1 Countries)
806-209	4	1.85mm phase stable VNA RF cable, 36", M-F

On-site system assembly and verification will be arranged by Customer Service upon delivery of all system items.

Note: Option 51, 61, or 62 (for the MS4647B) is not included in system price and must be purchased separately

#### Master Test Sets

3736B	4-Port Master Test Set
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#### 4-Port Test Sets

MN4697C	4-Port Test Set, V (For MS4645B or MS4647B) (VNA must 3, 7c have, at minimum, either Option 51, 61, or 62)
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