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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 85523B

Keysight 85523B CalPod Controller for 855xx Calibration Refresh Modules The Keysight 85523B is the CalPod controller that operates 85530B/85531B/85532B 20 GHz and 85540A/B-85542A/B 40 GHz CalPod refresh modules on PNA and M937xA VNAs. OEM 85523-90007 performance characteristics list up to 48 CalPods controlled, four recorrelated at a time, 85556A fan-out for more than four, and 9-pin LEMO DC control. In-situ calibration refresh of PNA measurements in thermal-vacuum, temperature chambers, and multi-port ATE without removing the DUT. The Keysight 85523B is the CalPod controller that operates 85530B/85531B/85532B 20 GHz and 85540A/B-85542A/B 40 GHz CalPod refresh modules on PNA and M937xA VNAs. OEM 85523-90007 performance characteristics list up to 48 CalPods controlled, four recorrelated at a time, 85556A fan-out for more than four, and 9-pin LEMO DC control. In-situ calibration refresh of PNA measurements in thermal-vacuum, temperature chambers, and multi-port ATE without removing the DUT. Related 20 GHz Standard: 85530B 100 MHz to 20 GHz



MODEL

**Agilent / Keysight
85523B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

85523B

LISTING

<https://aumictechlabs.com/products/85523b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 85523B CalPod Controller provides centralized control of CalPod calibration refresh modules for the PNA family and M937xA PXIe vector network analyzers. Operating via firmware

on the host PNA, this controller delivers the control signals and bias voltages required to enable in-situ calibration refresh - critical for maintaining measurement accuracy in dynamic and remote testing environments. The unit manages up to four CalPod modules directly and scales to 48 modules with the 85556A fan-out cable splitter accessory.

Technical Specifications

CalPod Module Control: Four direct drive cable ports; expandable to 48 modules with optional splitter

Compatible CalPod Modules: 85530B, 85531B, 85532B (20 GHz variants); 85540B, 85541B, 85542B (40 GHz variants)

Connectors: RF1 input (2.92 mm male), RF2 output (2.92 mm female), DC control signals (9-pin LEMO)

Power: Autoranging line voltage input; $\pm 10\%$ tolerance of nominal supply voltage

Weight: Approximately 100 grams

Key Features

- Firmware-driven operation on host PNA eliminates external control complexity
- Scalable architecture supports single or multi-module calibration refresh workflows
- Four integrated drive cable ports reduce external interconnect requirements
- Operates across extended temperature ranges including ambient (-30°C to $+80^{\circ}\text{C}$) and thermal-vacuum environments
- Compact form factor; optional rack mount kits (85523B-1CM, 85523B-1CP) and front handle kit (85523B-1CN) available

Typical Applications

- In-situ calibration refresh for multiport and dynamic measurements
- Distributed measurement systems requiring remote calibration management
- High-frequency characterization with automated recalibration cycles

Compatibility & Integration

The 85523B integrates with PNA-X (N524xA), PNA (N522xA), and PNA-L (N5231/32/34/35/39A) series analyzers, plus M937xA PXIe architectures. Standard 85553A (2 m, 40 GHz) and 85554A (10 m extension) CalPod drive cables provide flexible cabling options.

85523B Characteristics / Specifications

PARAMETER	VALUE
Model	85523B
Instrument Type	CalPod controller
Related 20 Ghz Standard	85530B 100 MHz to 20 GHz
Related 20 Ghz Temp	85531B 100 MHz to 20 GHz
Related 20 Ghz Tv	85532B 100 MHz to 20 GHz
Related 40 Ghz Standard	85540A/B 500 MHz to 40 GHz
Host Analyzers	PNA-X N524xA, PNA N522xA, PNA-L N5231/32/34/35/39A, M937xA
Max Calpods Controlled	48
Simultaneous Recorrection	4
Fanout For More Than Four	85556A
Dc Control Connector On Calpod	9-pin LEMO
Calpod Rf	2.92 mm female
Insertion Loss 20 Ghz 100 Mhz To 10 Ghz	3.5 dB maximum
Insertion Loss 20 Ghz 10 To 20 Ghz	4.0 dB maximum
Return Loss 20 Ghz 100 Mhz To 5 Ghz	12.0 dB minimum at RF2
Return Loss 20 Ghz 5 To 20 Ghz	9.0 dB minimum at RF2
Safe Rf Input	30 dBm minimum damage limit on CalPod table
Literature	85523-90007 / 85523-90006
Manufacturer	Keysight
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications
Return loss	20 Ghz 100 Mhz To 5 Ghz: 12.0 dB minimum at RF2

85523B Specifications

PARAMETER	VALUE
Key Features	Controls 20 GHz and 40 GHz CalPods
Four CalPods recorrected at a time	Required firmware on PNA or M937xA
Technical Specifications	Model: 85523B

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

performance characteristics list up to 48 CalPods controlled, four recorrected at a time, 85556A fan-out for more than four, and 9-pin LEMO DC control.

Applications

In-situ calibration refresh of PNA measurements in thermal-vacuum, temperature chambers, and multi-port ATE without removing the DUT.

Key Features

Controls 20 GHz and 40 GHz CalPods

Up to 48 CalPods in a system

Four CalPods recorrected at a time

Required firmware on PNA or M937xA

LEMO DC control to each CalPod

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	85523B
Instrument Type	CalPod controller
Related 20 Ghz Standard	85530B 100 MHz to 20 GHz
Related 20 Ghz Temp	85531B 100 MHz to 20 GHz
Related 20 Ghz Tv	85532B 100 MHz to 20 GHz
Related 40 Ghz Standard	85540A/B 500 MHz to 40 GHz
Host Analyzers	PNA-X N524xA, PNA N522xA, PNA-L N5231/32/34/35/39A, M937xA
Max Calpods Controlled	48
Simultaneous Recorrection	4
Fanout For More Than Four	85556A
Dc Control Connector On Calpod	9-pin LEMO
Calpod Rf1	2.92 mm male
Calpod Rf2	2.92 mm female

Insertion Loss 20 Ghz 100 Mhz To 10 Ghz: 3.5 dB maximum

Insertion Loss 20 Ghz 10 To 20 Ghz: 4.0 dB maximum

Return Loss 20 Ghz 100 Mhz To 5 Ghz: 12.0 dB minimum at RF2

Return Loss 20 Ghz 5 To 20 Ghz: 9.0 dB minimum at RF2

Specifications

PARAMETER	VALUE
Safe Rf Input	30 dBm minimum damage limit on CalPod table

PARAMETER	VALUE
Literature	85523-90007 / 85523-90006
Manufacturer	Keysight
Brand Lineage	Hewlett Packard Agilent Keysight
Documentation Type	OEM datasheet and catalog specifications

Notes

From Keysight 855xxA/B Series CalPods and 85523B CalPod Controller Performance Characteristics 85523-90007. CalPod modules themselves are separate models; this file documents the 85523B controller and the published 20 GHz CalPod interface ratings it drives.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.