

ACM8400T Automatic Calibration Module

The ACM contains two RF connectors for connection to VNA test ports, Mini-USB control port, several different transmission and reflection impedance states and electronic changeover switches. ACM8400T has 12 reflection states (three for each port) and a Thru. The precise S-parameters of the calibration impedance states are stored in the ACM memory (factory characterization data).

Measurement Range ¹

Impedance	50 Ohm
Number of ports	4
Frequency range	100 kHz to 8 GHz
Number of characterization points	up to 1601

Hardware Configurations ¹

Model	Connector type	
	Port A	Port B
ACM8400T - 01111	type N, female	type N, female
ACM8400T - 01212	type N, male	type N, female
ACM8400T - 11111	3.5 mm, female	3.5 mm, female
ACM8400T - 11212	3.5 mm, male	3.5 mm, female

Effective System Data ^{1,2,3}

20 kHz to 6 GHz	
Directivity	46 dB
Source match	40 dB
Load match	46 dB
Reflection tracking	0.04 dB
Transmission tracking	0.06 dB

Port Input ¹

Max power	0 dBm
Max DC voltage ⁴	10 V
Damage level ⁵	+18 dBm
Damage DC voltage ⁵	35 V

Interface & Power ¹

Interface	USB 2.0
Connector type	Mini USB B
Support standart	USBTMC-USB488
Power consumption	0.6 W



Dimensions ¹

Length	115 mm
Width	74 mm
Height	25 mm
Weight	0.55 kg (20 oz)

Environmental Specifications ¹

Operating temperature	+5 °C to +40 °C (41 °F to 104 °F)
Storage temperature	-50 °C to +70 °C (-58 °F to 158 °F)
Humidity	90 % at 25 °C (77 °F)
Atmospheric pressure	70.0 kPa to 106.7 kPa

[1] All specifications subject to change without notice.

[2] VNA maximum effective parameters after calibration.

[3] All parameters are determined in the temperature range of 23±5°C with the temperature variation after calibration of no more than ±1°C and output power of -5dBm output.

[4] Exceeding max values reduces VNA measurement accuracy.

[5] Exceeding limit values results in ACM failure.

