

# ACM8000T 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. ACM8000T has ten reflection states (five 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 <sup>1</sup>

<b>Impedance</b>	50 Ohm
<b>Number of ports</b>	2
<b>Frequency range</b>	100 kHz to 8 GHz
<b>Number of characterization points</b>	up to 1601

## Hardware Configurations <sup>1</sup>

Model	Connector type	
	Port A	Port B
ACM8000T - 011	type N, female	type N, female
ACM8000T - 012	type N, male	type N, female
ACM8000T - 111	3.5 mm, female	3.5 mm, female
ACM8000T - 112	3.5 mm, male	3.5 mm, female

## Effective System Data <sup>1,2,3</sup>

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 <sup>1</sup>

<b>Max power</b>	-5 dBm
<b>Max DC voltage<sup>4</sup></b>	10 V
<b>Damage level<sup>5</sup></b>	+18 dBm
<b>Damage DC voltage<sup>5</sup></b>	35 V

## Interface & Power <sup>1</sup>

<b>Interface</b>	USB 2.0
<b>Connector type</b>	Mini USB B
<b>Support standart</b>	USBTMC-USB488
<b>Power consumption</b>	0.2 W



## Dimensions <sup>1</sup>

<b>Length</b>	115 mm
<b>Width</b>	40 mm
<b>Height</b>	25 mm
<b>Weight</b>	0.35 kg (12 oz)

## Environmental Specifications <sup>1</sup>

<b>Operating temperature</b>	+5 °C to +40 °C (41 °F to 104 °F)
<b>Storage temperature</b>	-50 °C to +70 °C (-58 °F to 158 °F)
<b>Humidity</b>	90 % at 25 °C (77 °F)
<b>Atmospheric pressure</b>	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.

