



## Frequency Counter

### OFC3168

- Up to 3 channels, up to 16 GHz. (Maximum frequency measurement can reach to 16 GHz depending on option.)
- High accuracy; minimum measurement resolution 8 digits/s.
- Built-in 16 bit microcontroller for fast data processing.
- Statistics calculation functions: multi-average, maximum, minimum, ppm, standard deviation and Allan Variance

Model		OFC3168		
Measuring Functions	Frequency	CH1	0.001 Hz ~ 150 MHz	
		CH2	Options: 3 GHz / 6.5 GHz / 12.4 GHz / 16 GHz	
		CH3	Options: 3 GHz / 6.5 GHz / 12.4 GHz / 16 GHz	
	Display		8 digits/s	
	Period		8 ns ~ 1000 s	
	Pulse Width		50 ns ~ 1000 s	
	Duty Cycle		5% ~ 95%	
Totalize		0 ~ 1×10 <sup>13</sup>		
Input	Dynamic Range		50 mVrms ~ 1.0 Vrms (sine), 150 mVpp ~ 4.5 Vpp (pulse)	
	Input Impedance		1 MΩ//35 pF or 50 Ω	
	Coupling Mode		AC or DC	
	Trigger Mode		Rising edge or falling edge	
	Input attenuation		×1 or ×10	
	Low-pass Filter		Stop frequency approx. 100 kHz	
	Trigger Level		-5.000 V ~ +5.000 V, step 5 mV	
Other Functions	High and Low Limits		"Limit" light ON shows the result out of range, OFF shows within range.	
	Statistics Calculation		Multi-average, max, min, ppm, SD, Allan Variance	
Standard Time Base	Accuracy		1×10 <sup>-5</sup>	
Channel Options			<b>Frequency Range</b>	
	3.0 GHz		100 MHz ~ 3 GHz	
	6.5 GHz		200 MHz ~ 6.5 GHz	
	12.4 GHz		6.5GHz ~ 12.4 GHz	
	16.0 GHz		6.5GHz ~ 16.0 GHz	
		<b>Dynamic range</b>		
3.0 GHz		-27 dBm ~ + 19 dBm (100 MHz ~ 2.6 GHz); -15 dBm ~ + 19 dBm (2.6 GHz ~ 3.0 GHz)		
6.5 GHz		-15 dBm ~ + 13 dBm		
12.4 GHz		-15 dBm ~ + 10 dBm		
16.0 GHz		-15 dBm ~ + 10 dBm		
General Characteristics	Interface	Standard	RS-232	
	Power		AC 220 V (10%) or AC110 V (10%), 50 Hz (5%) or 60 Hz (5%)	
	Dimensions & Weight		375 mm × 105 mm × 235 mm; approx. 3.7 kg	

#### Accessories:

OFC3168-A1	Power Cord
OFC3168-A2	BNC Testing Cable
OFC3168-A3	CD (Software+ User Guide)

#### Options:

OFC3168-A4	CH2 frequency range: 100 MHz to 3 GHz
OFC3168-A5	CH2 frequency range: 200 MHz to 6.5 GHz
OFC3168-A6	CH2 frequency range: 6.5 GHz to 12.4 GHz
OFC3168-A7	CH2 frequency range: 6.5 GHz to 16 GHz
OFC3168-A8	CH3 frequency range: 100 MHz to 3 GHz
OFC3168-A9	CH3 frequency range: 200 MHz to 6.5 GHz
OFC3168-A10	CH3 frequency range: 6.5 GHz to 12.4 GHz
OFC3168-A11	CH3 frequency range: 6.5 GHz to 16 GHz