

FCN4760 Frequency Converter



The FCN4760 is a block down converter for the 4.7 to 6.0 GHz frequency range. It is designed to work with an Anritsu Spectrum Master MS2711D or Site Master S332D equipped with Option 6.

This converter is primarily intended for field use by fixed wireless engineers who are responsible for the design, deployment and optimization of 802.11a networks. It is also used to conduct interference analysis measurements to determine the level of interference and locate the sources of interference.

The standard measurement capabilities of the Spectrum Master MS2711D and Site Master S332D spectrum analyzer mode capabilities can be used with the FCN4760. These capabilities include one-button measurements such as occupied bandwidth, field strength, carrier to interference ratio (C/I) measurement, adjacent channel power ratio, and channel power.

External directional or omni-directional antennas can be attached to the type-N female connector on the FCN4760 for use in interference sniffing.



FCN4760 Frequency Converter Specifications

Frequency	Frequency range	4.7 GHz to 6 GHz
	Frequency resolution ¹	10 Hz
	Frequency reference	Aging: ± 1 ppm/yr Accuracy: ± 2 ppm
	SSB Phase Noise (6 GHz) @30 kHz Offset	≤ -65 dBc/Hz
	Spurious responses Input related	≤ -45 dBc
	Spurious residual responses ¹	≤ -90 dBm
Amplitude	Measurement range	-40 dBm to -100 dBm
	Sensitivity ¹ (displayed avg. noise level)	-100 dBm
	Accuracy	± 1.75 dB typical (± 2.25 dB max.) ¹
	Maximum input level without damage	-5 dBm
General	Input and Output Ports RF In RF Out (to MS2711D) Communication Interface	Type N, female, 50 Ω Type N, male, 50 Ω Proprietary
	Electromagnetic compatibility	Meets European community requirements for CE marking
	Safety	Conforms to EN 61010-1 for Class 1 portable equipment
	Temperature Operating Non-operating	-10°C to 50°C, humidity 85% or less -50°C to +80°C
	Power dissipation	850 mW max
	Dimensions Size (W x H x D) Weight	6.6 cm x 10.9 cm x 3.3 cm (2.6 in x 4.3 in x 1.3 in) <0.45 kg (<1 lb.)

¹Specifications apply when connected to the MS2711D Spectrum Master or the S332D Site Master in spectrum analyzer mode.

Accessories

- Type-N male to SMA female adapter
- Type-N male to SMA male adapter
- Antenna, 5725 – 5825 MHz, SMA male connector

Ordering Information

FCN4760	4.7 to 6.0 GHz Frequency Converter
1091-27	Type-N male to SMA female adapter
1091-26	Type-N male to SMA male adapter
2000-1361	Antenna, 5725-5825 MHz, SMA male connector

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