Quick Fact Sheet

Spectrum Master[™] **MS2720T** 9 kHz to 9 GHz, 13 GHz, 20 GHz, 32 GHz, 43 GHz





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Designed for Field Use

With the 7th Spectrum Master generation, Anritsu has not been standing still in the development of instruments designed to meet user needs, whether as a handy bench instrument or as a high performance field tool that can make measurements wherever they need to be made. User convenience features, such as a touch screen, serve to make the 7th generation Spectrum Master even easier to use. A brighter display with several user-selectable display choices including high contrast, monochrome, and night-vision red makes the Spectrum Master outstanding in the field. Burst detect is included to simplify finding pulsed interfering signals.

Spectrum and Interference Analyzer Highlights

- > Intuitive, Easy to Use Touch Screen User Interface
- > Tracking Generators to 9/13/20 GHz (model dependent)
- Measure: Occupied Bandwidth, Channel Power, ACPR, C/I, Spurious Emissions, Field Strength and More
- > Dynamic Range: > 106 dB in 1 Hz RBW
- > DANL: -160 dBm in 1 Hz RBW @ 1 GHz
- > Phase Noise: -108 dBc/Hz typical @ 10 kHz offset at 1 GHz
- > Sweep Modes: Fast, Performance, No FFT, Burst Detect
- > Traces: Normal, Max Hold, Min Hold, Average, # of Averages
- > Burst Detect: detects and displays bursty signals 200 μs wide or wider
- > Frequency Accuracy: GPS On: ±25 ppb, GPS Off: ±1 ppm/yr
- > Interference Analyzer: Spectrogram, Signal Strength, RSSI, Mapping
- > 1 Hz to 10 MHz Resolution Bandwidth (RBW) and Video Bandwidth (VBW)
- Options for 3G and 4G cellular measurements including LTE, TD-LTE, GSM, NB-IoT, CDMA, WiMAX, WCDMA, and TD-SCDMA
- > Detectors: Peak, Negative, Sample, Quasi-peak, and true RMS
- > Markers: 6, each with a Delta Marker, or 1 Reference with 6 Deltas
- > Limit Lines: up to 40 segments with one-button envelope creation



Capabilities and Functional Highlights

- > LTE, TD-LTE
- > GSM/EDGE
- > W-CDMA/HSPA+
- > TD-SCDMA/HSPA+
- > CDMA, EV-DO
- > Fixed, Mobile WiMAX
- > NB-IoT
- > AM/FM/SSB Demodulator
- > Zero-span IF Output
- > EMF Measurements
- IQ Waveform Capture

- > Standard Quasi-PK Detector
- > Gated Sweep
- > GPS tagging of stored traces
- > Internal Preamplifier standard
- > High Accuracy Power Meter
- > USB Power Sensors Up to 50 GHz
- > Channel Scanner
- > 8.4 inch High Resolution Display
- > < 5 minute warm-up time
- > 3 hour battery operation time
- > Ethernet/USB Data Transfer



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Key Specifications

Spectrum Ana	alyzer					
Option	Option 709		Option 713	Option 720	Option 732	Option 743
Frequency	9 kHz to 9 GH	Z	9 kHz to 13 GHz	9 kHz to 20 GHz	9 kHz to 32	9 kHz to 43
Frequency	10 Hz to 9 GH	Z	10 Hz to 13 GHz	10 Hz to 20 GHz	10 Hz to 32	10 Hz to 43
Phase Noise	–108 dBc/Hz a 10 kHz offset a 1 GHz		-102 dBc/H	lz at 10 kHz offset a	at 1 GHz (–106 dE	Bc/Hz typ.)
Displayed Av	erage Noise Le	vel				
DANL Preamplifier	-146 dBm at 3	GHz		–145 dBm	at 3 GHz	
DANL Preamplifier	-160 dBm at 3	GHz		–161 dBm	at 3 GHz	
Dynamic				> 106	i dB	
Tracking Generator	100 kHz to 9/13/20 GHz, –40 dBm to 0 dBm (only for options 709, 713 and 720)					
General						
Internal Trace	Setup Memory	>40,	000 traces			
External Trace Memory	e/Setup	size	of USB Flash drive	е		
Connections		Con	nect to PC using L	ISB, LAN, or Direct	Ethernet connect	ion
Display		8.4 i	nch with 800 x 600	resolution		
Operating Ten	nperature	-10	°C to 55 °C			
Dimensions		315	mm x 211 mm x 7	7 mm, (12.4 in x 8.3	3 in x 3.0 in)	
Weight		3.7 l	kg, (8.5 lbs)			
Warranty		Star	ndard three-year w	arranty, One-year v	varranty on batter	у

Standard Accessories

Part Number	Description
2000-1685-R	Soft Carrying Case
2000-1691-R	Stylus with Coiled Tether
633-75	High Capacity Li-Ion Battery
40-187-R	AC/DC Power Supply
806-141-R	Automotive Cigarette Lighter 12 Volt DC Adapter
2000-1371-R	Ethernet Cable, 7 feet/213 cm
3-2000-1498	USB A-mini B Cable, 10 feet/305 cm
2000-1797-R	Touchscreen Protective Film, 8.4 in (one factory-installed, one spare)
	Certificate of Calibration and Conformance

Options					
MS2720T-0709	Frequency Range 9 kHz to 9 GHz				
MS2720T-0713					
MS2720T-0720					
MS2720T-0732					
MS2720T-0743					
MS2720T-0809					
MS2720T-0813					
MS2720T-0820					
MS2720T-0025					
MS2720T-0009					
MS2720T-0027	Channel Scanner				
MS2720T-0431	Coverage Mapping (Requires Option 31 for full functionality)				
MS2720T-0509					
MS2720T-0024					
MS2720T-0089					
MS2720T-0090					
MS2720T-0444	'				
MS2720T-0019					
MS2720T-0880					
MS2720T-0881					
MS2720T-0882					
MS2720T-0883	LTE FDD/TDD Measurements (Requires Option 9, Option 31 required for full functionality)				
MS2720T-0886	LTE 256 QAM Demodulation (Requires Option 883)				
MS2720T-0884	CDMA/EV-DO Measurements (Requires Option 9, Option 31 required for full functionality)				
MS2720T-0885					
MS2720T-0887					
MS2720T-0007	Secure Data Operation				
	GPS Receiver (Requires GPS Antenna, sold separately)				
MS2720T-0031	- 2000-1528-R GPS Antenna, SMA(m) with 5 m (15 ft) cable, requires 5 VDC				
	- 2000-1652-R GPS Antenna, SMA(m) with 0.3 m (1 ft) cable, requires 3.3 VDC or 5 VDC				
	- 2000-1760-R GPS Antenna, SMA(m) with no cable, 2.5 VDC to 3.7 VDC				
MS2720T-0098	Standard Calibration (ANSI Z540-1-1994)				
MS2720T-0099	Premium Calibration (ANSI Z540-1-1994 plus test data)				

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