1.8 GHz SPECTRUM ANALYZER



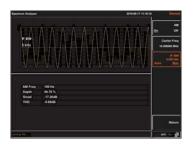
GSP-818 is a new basic spectrum analyzer, which supports a frequency range of 1.8 GHz and provides testing requirements for RF products during the development/production phases. GSP-818 has a built-in 20dB amplifier and provides an adjustable range of resolution bandwidth (RBW) from 10Hz to 3MHz. In addition, it has the AM/FM signal demodulation function and the ACPR/OCBW/CHPW test function to meet the requirements of general RF signal measurement.

To achieve clearer signal observation, GSP-818 utilizes a 10.4" large screen with SVGA (800 x 600) resolution. Pertaining to the communications interface, GSP-818 provides both USB and LAN interfaces. Via the USB Host, users can quickly retrieve the files saved after measurements. The USB Device and LAN interface allow users to control through the dedicated PC software or to use the required program designed by the corresponding commands.

GSP-818 also offers two options: Tracking Generator and EMI Filter & Detector. It is different from the previous models. If customers require options, there is no need to send the equipment back. Customers only need to purchase the corresponding software license (Software Keycode) to activate the purchased option, which greatly improves the operational efficiency.



Zoom In/Out



AM Demodulation



ACPR



FM Demodulation

GSP-818

FEATURES

- Frequency Range: 9kHz ~ 1.8GHz
- RBW: 10Hz ~ 3MHz, 10Hz ~ 500kHz in 1-10 steps
- Sensitivity:-148dBm/Hz Typical@PreAmp On
- Built-in AM/FM Demodulation
- Bandwidth Zoom Function
- Measurement Function: ACPR/OCBW/ CHPW, NdB Bandwidth, Freq. Counter, Noise Marker
- Built-in 20dB Preamplifier Standard
- Interface: Lan, USB
- Screen: 10.4" SVGA Output (800x600)
- Options: Tracking Generator, EMI Filter & Detector (via software keycode)



Front



Rear Panel

APPLICATIONS

- Checking and Analysis of Spectrum Characteristics
- Analyze AM and FM Signal Characteristics
- Monitor the Signal Uploaded by SNG Vehicle
- For a Compact Test System
- Measuring the Frequency Response of RF Cables, Attenuators, Filters and Amplifiers



GSP-818

SPECIFICATIONS				
FREQUENCY				
Frequency Span	Range Resolution	9 kHz to 1.8 GHz 1 Hz		
Frequency Span	Span Range	0 Hz, 100 Hz to max. frequency of instrumen	t	
requerey open	Span Uncertainty	\pm span/(sweep points-1)	•	
Internal Frequency Reference	Span Range	10.000000 MHz		
	Reference Frequency Accuracy	\pm [(days from last calibrate × freq aging rate)	+ temperature stability + initial accuracy]	
	Temperature Stability Aging rate	< 2.5ppm (15°C to 35°C) < 1ppm/year		
SSB Phase Noise	10 kHz	<-82 dBc/Hz		
	100 kHz	< -98 dBc/Hz(Typical)		
	1 MHz	< -110 dBc/Hz(Typical)		
Bandwidth	Resolution Bandwidth	10Hz to 500kHz (1-10 steps by sequence), 1MHz, 3MHz		
	RBW Uncertainty	(Option) 200 Hz, 9 kHz, 120 kHz, 1 MHZ for EMI(-6dB) < 5%, typical (RBW≤1 MHz) (48) < 5:1 typical (digital and close to Gaussian shape)		
	Resolution Filter Shape Factor (60dB:3dB)			
	Video Bandwidth(VBW)	10 Hz to 3 MHz		
AMPLITUDE				
Amplitude and Level	Amplitude Measurement Range Reference Level	Ige DANL to +10 dBm, 100 kHz to 1 MHz, Preamp Off; DANL to +20 dBm, 1 MHz to 1.5 GHz, Preamp -80 dBm to +30 dBm, 0.01dB by step		
	Preamp	20 dB, nominal, 9 kHz to 1.8 GHz		
	Input Attenuation	0 to 40 dB, in 1 dB step		
	Max Input DC Current 50 VDC			
Display Average Noise Level	Max Continuous Power	+30dBm, average continuous power	Province Out	
	1 MHz ~ 10 MHz	Preamp Off	Preamp On	
	1 MHz ~ 10 MHz 10 MHz ~ 1 GHz	-130 dBm (Typical) -130 dBm (Typical)	-150 dBm (Typical) -150 dBm (Typical)	
	1 GHz ~ 1.8 GHz	-128 dBm (Typical)	-148 dBm (Typical)	
Frequency Response	Preamp Off(fc≥100 kHz)	±0.8 dB:±0.4 dB, Typical	- · · · (·/F··/	
	Preamp On(fc≥100 MHz)	±0.9 dB:±0.5 dB, Typical		
Difference and Accuracy	RBW Switch Difference	Reference: 10 kHz RBW at 50 MHZ; Log resolution=±0.2 dB, Lin resolution=±0.01 Nominal		
Input Attenuation Differ		20° C - 30° C, fc=50 MHz, Preamplifier Off, 10 dB RF attenuation, input signal 0-40 dB ±0.5 dB		
	Absolute Amplitude Uncertainty	20°C to 30°C, fc=50 MHz, Span=200 kHz, RBW=10 kHz, VBW=10 kHz, peak detector, 10 dB RF attenuation, 95% confidence level		
	Preamp Off	±0.4 dB, input signal level -20 dBm		
	Preamp On	±0.5 dB, input signal level -40 dBm		
	Uncertainty	Input signal range 0 dBm to -50 dBm; ±1.5 dB		
Distantian and Country	VSWR Second Harmonic Distortion	Input 10 dB RF attenuation, 1MHz to 1.8GHz; <1.5, Nominal fc≥50 MHz, Preamp off, signal input -20 dBm, 0 dB RF attenuation, 20°C to 30°C; -65 dBc		
Distortion and Spurious Response	Third-order Intermodulation	$fc \ge 50$ MHz, Preamp off, signal input -20 dBm, 0 dB RF attenuation, 20 C to 30 C; -b5 dBC fc ≥ 50 MHz, Input double tone level -20 dBm, frequency interval 100 kHz, input attenuation 0 dB,		
Response		preamplifier off, 20°C to 30°C; +10 dBm		
	1 dB Gain Compression	fc≥50 MHz, 0 dB RF attenuation, Preamp off , 20°C to 30°C ; >+2 dBm, Nominal		
	Residual Response	connect 50 Ω load at input port, 0 dB input attenuation, 20°C to 30°C; <-85 dBm, from 100 kHz to 1.5 GHz; <-80 dBm, from 1.5 GHz to 1.8 GHz		
	Input Related Spurious -30 dBm signal at input mixer, 20°C to 30°C; <-60 dBc			
SWEEP				
	Time None-zero Span Zero Span	10 ms to 3000 s		
	Span Mode	1 ms to 3000 s Continue, Single		
TRACKING GENERATOR (OP	TION 01)			
Tracking Generator Output				
	Output Power Level Range Output Power Level Resolution	-30 dBm to 0 dBm		
	Output Flatness	±3 dB		
	Maximum Safe Reverse Level	Average total power: 30 dBm, DC : ±50 VDC		
DEMODULATION Audio Demodulation	Executions Pango	100 kHz to 1.8 GHz		
Audio Demodulation	Frequency Range Demodulation Type	FM/AM/USB/LSB		
AM Measurement Frequency Range 10MHz to 1.8GHz				
	Modulation Rate	20Hz to 100kHz		
	Modulation Rate Accuracy	1Hz, nominal(Modulation rate < 1 kHz); <0.1% modulation rate, nominal(Modulation rate≥1 kHz)		
	Depth Depth Accuracy	5% to 95%		
FM Measurement	Depth Accuracy Frequency Range	±4%, nominal 10 MHz to 1.8 GHz		
	Modulation Rate	20 Hz to 100 kHz		
	Modulation Rate Accuracy	1Hz, nominal(Modulation rate < 1 kHz); <0.1% modulation rate, nominal(Modulation rate≥1 kHz)		
	Deviation	20 Hz to 200 kHz		
FREQUENCY COUNTER	Deviation Accuracy	±4%, nominal		
INEQUENCI COUNTER	Counter Resolution	1Hz, 10Hz, 100Hz, 1kHz		
	Accuracy	±(frequency indication × frequency reference	accuracy+ counter resolution	
INPUTS AND OUTPUTS				
RF Input	Impedance	50 Ω , Typical		
Tracking Generator Output	Connector	N Type Female		
nucking Generator Output	Impedance Connector	50 Ω , Typical N Type Female		
Reference Input	Connector	BNC Female		
	10MHz Reference Amplitude	0 dBm to +10 dBm		
USB	USB Host	A Plug, USB 2.0 (Host End)		
VCA	USB Device	B Plug, 2.0 Version		
VGA	Connector Resolution	15-pins, D-SUB(female) 800*600, 60 Hz		
GENERAL SPECIFICATION				
Display	Туре	10.4 inches, TFT LCD, 800*600 (SVGA), 65536 colors		
Remote Control	USB	USB TMC		
Mass Mamani	LAN	10/100Base, RJ-45 256M Bytes		
Mass Memory Temperature	Internal Memory Operating Temperature	0 °C to 40°C		
peruture	Storage Temperature	-20°C to 70°C		
Appearance	Dimensions & Weight	421mm(W) × 221mm(H) × 115mm(D)/Approx. 5.0 kg(without package)		
Specifications subject to change without notice. GSP-818GD1DF				
OPDEDING INFORMAT		OPTIONAL ASS		
ORDERING INFORMAT				
GSP-818 1.8 GHz Spe	ctrum Analyzer		Generator (via software cacatua) er & FMI Detector (via software keycode)	

ACCESSORIES

Power cord, Calibration Certificate

CD (including quick start guide, user manual, programming manual, PC software)

ECTRONICS WW 9 E POWER . TEST & MEASUREMENT

GOOD WILL INSTRUMENT CO., LTD.

No.7-1, Jhongsing Road, Tucheng Dist., New Taipei City 236, Taiwan T +886-2-2268-0389 F +886-2-2268-0639 E-mail: marketing@goodwill.com.tw





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