

E8400/E8600B SpectrumPROFILER™ Spectrum & Signal Analyzer

Key Benefits

- Performs comprehensive signal analysis for complete site profile and monitoring of signal environment
- Quickly identifies, locates, and maps signal interference
- High-speed analyzer measures 30 GHz/s @ 7.8 kHz RBW
- Frequency range 9 kHz ~ 6.0 GHz
- Rugged, lightweight design built to withstand harsh environments
- Functions include occupied bandwidth, channel power, ACLR
- Dual-spectrum and spectrogram measurements
- Verifies RF transmission
- 10.1" capacitive touchscreen for easy control & visibility in all lighting conditions
- Numerous data transfer options: LAN, USB, & more

Verify RF Transmission. Identify and locate signal interference. Confirm coverage.

Today's wireless spectrum is shared by a host of communications systems and services, including mobile communications, radio, wireless local-area networks, and digital video broadcasting. The same spectrum is shared by licensed and unlicensed transmitters alike, often hampered by impairments like reflection and fading. The result is a signal environment of extreme complexity, which must be cleared and routinely monitored in order to maximize service performance.

Designed specifically for wireless communications field engineers and technicians, the E8400B/E8600B SpectrumPROFILER provides all the measurement functions and performance specs you need to accurately characterize the signal environment. It can detect, locate, identify, and clear signal interference, all in one lightweight handheld instrument.



Standard Measurements

- Spectrum analysis
- Channel power
- Occupied bandwidth (OBW)
- Adjacent channel leakage ratio (ACLR)
- Field strength
- FM/AM

Optional Measurements

- Interference analyzer
- Indoor and outdoor coverage mapping
- High-precision power meter
- Tracking generator
- GPS
- FDD-TLE analysis and air interface testing
- TDD-TLE analysis and air interface testing



Specifications

Spectrum Analysis		
Frequency	E8400B	9 kHz ~ 4.4 GHz
range	E8600B	9 kHz ~ 6.0 GHz
Resolution		1 Hz
Aging		<±1,0 ppm/year
Frequency span		1 kHz ~ 6 GHz; zero span
Resolution bandwidth		1 Hz ~ 3 MHz
Video bandwidth		1 Hz ~ 3 MHz
Spectral purity / phase noise	1 kHz offset	-90 dBc / Hz
	10 kHz offset	-100 dBc / Hz
	100 kHz offset	-105 dBc / Hz
Dynamic range		>100 dB
Measurement range		DANL to maximum safe input level
RF max input		+30 dBm peak (typical); 50 VDC (>15 dB atten.)
Amplitude accuracy		≤±1.0 dB
Attenuation range		0 ~ 55 dB in 1-dB steps
Displayed average noise level* (DANL)	Typical, preamp on	≤ -160 dBm (1 MHz ~ 1 GHz) ≤ -154 dBm (1 GHz ~ 3 GHz)
	Typical, preamp off	≤ -148 dBm (1 MHz ~ 1 GHz) ≤ -138 dBm (1 GHz ~ 3 GHz)
General		
Display		8.4" 800 x 600 TFT LCD touchscreen
RF input		Type-N (f), 50Ω
Data transfer		2x USB 2.0 ports; 1x Ethernet LAN 10M / 100M port
Data storage		1 GB (>2000 saved measurement files) internal HD
Battery		Li-ion, 11.1V / 5.2Ah
Adapter		19V / 3.42Ah; 100 ~ 240 VAC; 50 ~ 60 Hz
Operating time		>4 hours' continuous operation; 8 hours idle
EMC compliance		IEC/EN 61326-1:2006
Shock		Mil-PRF-28800F Class 2
Operating temperature		-10 ~ +55°C
Storage temperature		-40 ~ +80°C
Dimensions (LxWxH)		10.9" x 8.5" x 3.4" (278mm x 217mm x 87mm)
Weight		6.6 lbs (3 kg)
Standard Accessories		
Rechargeable Li-ion battery (11.1V, 5.2Ah)		
AC/DC adapter (19V, 3.42Ah)		
Vehicle plug-in charger		
Vinyl carrying case		
Companion software CD & user manual		
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Optional Accessories			
RF test port cable, armored, 1.5m, N(m) to N(f), 6 GHz, 50 Ω			
RF test port cable, armored, 1.5m, N(m) to 7/16 DIN(f), 6 GHz, 50 Ω			
RF test port cable, armored, 1.5m, N(m) to 7/16 DIN(m), 6 GHz, 50 Ω			
RF test port cable, armored, 3.0m, N(m) to 7/16 DIN(f), 6 GHz, 50 Ω			
RF test port cable, armored, 3.0m, N(m) to 7/16 DIN(m), 6 GHz, 50 Ω			
Precision Adapters			
Adapter kit (PNMDM, PNFDM, PNMDF, PNFDF, PDFDF, PDFDM 90°), 6 GHz, 50Ω			
Precision adapter, N(m) to N(m), DC to 18 GHz, 50 $\!\Omega$			
Precision adapter, N(f) to N(f), DC to 18 GHz, 50Ω			
Precision adapter, N(f) to 7/16 DIN (m), DC to 6 GHz, 50 Ω			
Precision adapter, N(f) to 7/16 DIN (f), DC to 6 GHz, 50 Ω			
Precision adapter, N(f) to SMA(f), DC to 6 GHz, 50 Ω			
Attenuators			
10W, 6dB, DC-6 GHz, N(f) to N(m)			
50W, 30dB, DC-6 GHz, N(f) to N(m)			
100W, 40dB, Bi-directional, DC-18 GHz, N(f) to N(m)			
Directional Antennas			
806-960 MHz, N(f), 10 dBi, Yagi			
822-900 MHz, N(f), 10 dBi, Yagi			
824-960 MHz, N(f), 10 dBi, Yagi			
885-970 MHz, N(f), 10 dBi, Yagi			
1710-1880 MHz, N(f), 10 dBi. Yagi			
1850-1990 MHz, N(f), 10 dBi, Yagi			
1920-2170 MHz, N(f), 10 dB, Yagi			
2400-2500 MHz, N(f), 10 dBi, Yagi			
9 kHz to 20 MHz, log periodic			
20 MHz to 200 MHz, log periodic			
200 MHz to 500 MHz, log periodic			
500 MHz to 3 GHz, log periodic			
Portable Antennas			
470-860 MHz, SMA(m), 50Ω			
806-866 MHz, SMA(m), 50Ω			
870-960 MHz, SMA(m), 50Ω			
1710 to 1880 MHz, SMA(m), 50Ω			
1850 to 1990 MHz, SMA(m), 50Ω			
1920 to 2170 MHz, SMA(m), 50Ω			
2400 to 2500 MHz, SMA(m) , 50Ω			
5725 to 5875 MHz, SMA(m), 50Ω			
Power Sensors			
In-line Bi-directional high power sensor, 300 MHz ~ 4 GHz, 2mW ~ 150W, N(f) 50 Ω			
Terminal power sensor			

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