

USB Peak Power Sensor MA244xxA

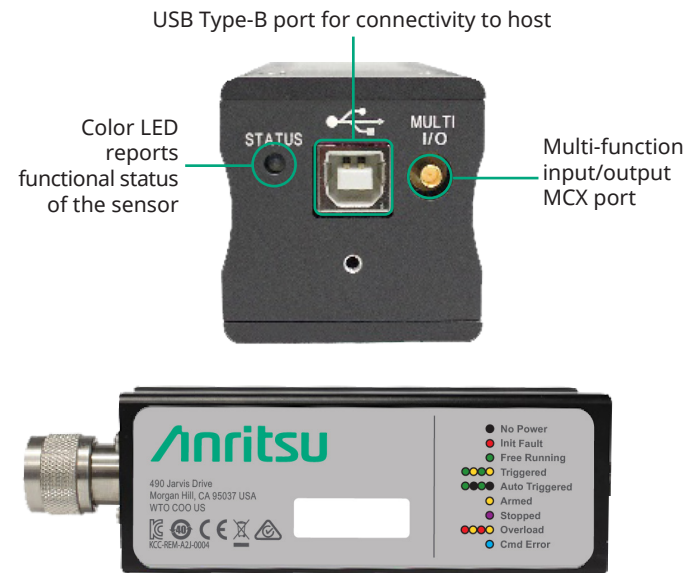
The USB peak power sensor MA244xxA family is designed to meet the challenges of signal measurement and characterization in a complex world of wireless communications. With industry-leading rise time and video bandwidth (VBW) of up to 195 MHz (sensor dependent), this family of sensors is able to measure the peak power of wideband modulated signals (i.e., 802.11ac) as well as pulses as narrow as 10 ns.

The USB peak power sensor MA244xxA family also offers real-time processing of power readings – never missing a signal to process captured data. Sampling rates of 100 megasamples per second continuous and 10 gigasamples per second effective provides best-in-class time resolution of 100 ps and the ability to measure 2 ns rise time. Even the smallest change in the signal will be caught and plotted for a full picture of signal behavior.



USB Peak Power Sensor MA244xxA Highlights

- 6/8/18/40 GHz models
- Up to 195 MHz VBW and 3 ns rise time
- 100,000 measurements per second
- Real-time processing of power readings
- 100 MS/s continuous and 10 GS/s effective sampling rates
- 100 ps time resolution for rising/falling edge measurements
- Full pulse profiling
- Crest factor, CCDF, and statistical measurements



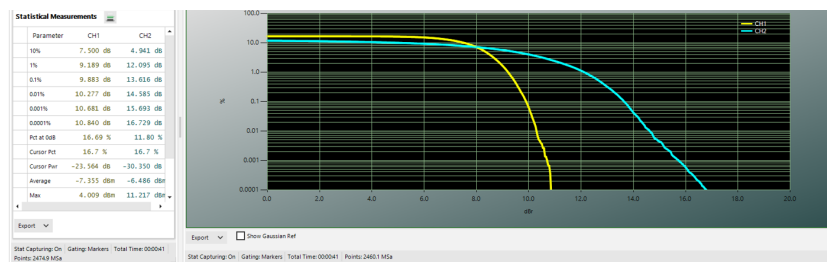
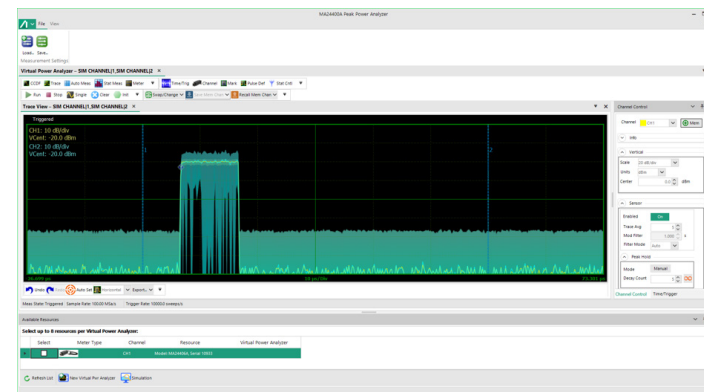
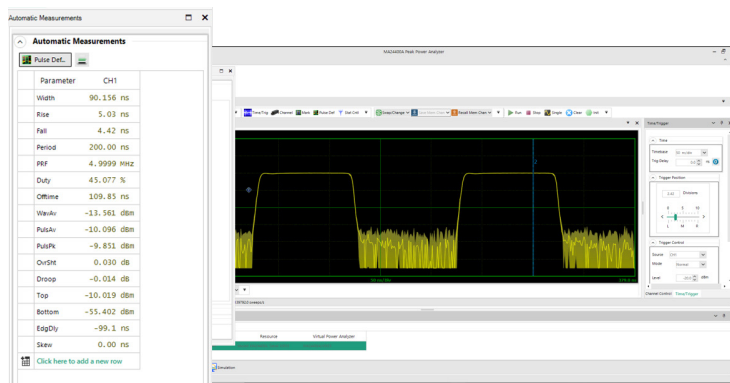
USB Power Sensors

Quick Fact Sheet

USB Peak Power Sensor MA244xxA

New Peak Power Analyzer Software

The new Peak Power Analyzer software enables users to connect to up to 8 sensors and up to 4 channels per sensor. Plot and measure pulses with power vs. time plots, and leverage automated measurements to simplify testing and reduce uncertainty. The software provides powerful statistical analysis, while its intuitive user interface makes it easy to configure and display results including: simple peak, average power, and trace view for pulse power analysis and CCDF graphs.



Ordering Information

Model	Frequency	VBW (high/std)	Power Range Avg	Power Range Pulse	RF Connector
MA24406A	50 MHz to 6 GHz	195 MHz/ 350 kHz	-60 to +20 dBm	-50 to +20 dBm	N(m)
MA24408A	50 MHz to 8 GHz	165 MHz/ 350 kHz	-60 ¹ to +20 dBm	-50 ² to +20 dBm	N(m)
MA24418A	50 MHz to 18 GHz	70 MHz/ 350 kHz	-34 to +20 dBm	-24 to +20 dBm	N(m)
MA24419A	50 MHz to 18 GHz	6 MHz/ 350 kHz	-50 to +20 dBm	-40 to +20 dBm	N(m)
MA24440A	50 MHz to 40 GHz	70 MHz/ 350 kHz	-34 to +20 dBm	-24 to +20 dBm	K(m)
MA24441A	50 MHz to 40 GHz	6 MHz/ 350 kHz	-50 to +20 dBm	-40 to +20 dBm	K(m)

(1) -53 dBm > 6 GHz (2) -43 dBm > 6 GHz