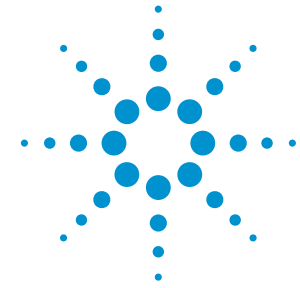


# Agilent 53200 RF/Universal Frequency Counter/Timers Models: 53210A, 53220A and 53230A



The Agilent 53200 Series is a new generation of 350 MHz RF/universal frequency counter/timers with optional 6 GHz or 15-GHz inputs. The first frequency counters with LXI Class C compliance, the 53200 family is built with LAN and USB I/O for ease of connectivity and data collection. The combination of high-speed measurements and built-in analysis and graphical display provides new functionality that has not previously been available in basic frequency counter/timers

So MUCH  
So FAST



## Key Features

- **More frequency:**  
350 MHz baseband frequency, 6- or 15-GHz optional microwave channels
- **More resolution:**  
Up to 12 digits/sec and 20-ps single-shot time interval
- **More information accessibility:**  
1 M reading memory, up to 75,000 frequency readings/sec, strip chart/trend plot, cumulative histograms
- **More connectivity:**  
First LXI-compliant counters (LXI/Ethernet, USB, GPIB connectivity)
- **More measurement capability:**  
Gap-free/continuous measurements and timestamping for basic modulation domain analysis and optional pulse/burst microwave measurements. The optional battery supports remote usage and helps maintain accurate measurements by keeping the timebase warm at all times.
- **Frequency counter emulation mode:**  
53131A, 53132A, 53181A



## Quick Fact Sheet

# Agilent 53200 RF/Universal Frequency Counter/Timers

## Product specifications

	3210A RF frequency counter	53220A universal frequency counter/timer	53230A universal frequency counter/timer
Channels	<ul style="list-style-type: none"><li>Channel 1: 350 MHz</li><li>Opt channel 2: 6 or 15 GHz</li></ul>	<ul style="list-style-type: none"><li>Channel 1 and 2: 350 MHz</li><li>Opt channel 3: 6 or 15 GHz</li></ul>	
Frequency resolution	10 digits/sec	12 digits/sec	
Time interval resolution	NA	100 psec	20 psec
Measurements	Frequency, period, frequency ratio, max/min/peak to peak input voltage	Frequency, period, frequency ratio, max/min/peak to peak input voltage, time interval, single period, pulse width, rise/fall time, duty cycle, phase, totalize	Frequency, period, frequency ratio, max/min/peak to peak input voltage, time interval, single period, pulse width, rise/fall time, duty cycle, phase, totalize, timestamp/MDA
Burst/pulse microwave measurements (optional)	NA		Carrier frequency, PRI, PRF, PW
Math	Smoothing (Reading moving average), scaling, $\Delta$ -change, null		
Statistics	Mean, standard deviation, max, peak-to-peak, count	Mean, standard deviation, max, peak-to-peak, count, Allan deviation	
Graphical display	Digits, trend, histogram, limit test, markers		

## Accessories

Part	Description
1250-1476	Adapter: Type-N (m) to BND (f), DC to 4 GHz
N2874A	Passive probe: 10:1, 1.5 GHz, 1.3 m
N2863A	Passive probe: 10:1, 300 MHz, 1.2 m
34190A	Rack mount kit
34191A	2U dual flange kit
34194A	Dual lock link kit

## Options

Part	Description
Option 010	Ultra high-stability OCXO timebase
106/115	Add 6/15 GHz CW microwave channel
203	Move microwave channel input to rear
150	Pulse microwave software (53230A only)
201	Add rear panel parallel inputs for channel 1 and channel 2
300	Add internal lithium ion battery pack and charger

For more details on the Agilent 53200 Series and ordering information see:

- Agilent 53200 Series Datasheet, literature number 5990-6283EN
- Agilent 53200 Family Brochure, literature number 5990-6339EN

For more information on the Agilent 53200 Series, please visit:

[www.agilent.com/find/FrequencyCounterSpotlight](http://www.agilent.com/find/FrequencyCounterSpotlight)

To find a distributor go to: [www.agilent.com/find/distributors](http://www.agilent.com/find/distributors)

### Recommended service options

Additional two years of Return-to-Agilent warranty  
Additional two years of Return-to-Agilent calibrations  
For more information go to [www.agilent.com/find/removealldoubt](http://www.agilent.com/find/removealldoubt)

