

# Q&A – RAS306 PC DETAILS

## What are the PC hardware requirements to run the RSA306 with SignalVu-PC or the API?

A PC with Windows 7, Windows 8/ 8.1 64-bit operating system and a USB 3.0 connection is required for operation of the RSA306. 8 GB RAM and 20 GB free drive space is required for installation of SignalVu-PC. For full performance of the real time features of the RSA306, an Intel i7 4th generation processor is required. Storage of streaming data requires that the PC be equipped with a drive capable of streaming storage rates of 300 MB/sec, which is only possible with solid state drives or arrays of spin drives

## What happens if I don't meet all of the requirements with my PC?

Processors of lower performance can be used, with reduced real time performance. This means that the minimum signal duration for 100% probability of intercept will increase, and the performance of AM/FM demodulation and listening will be degraded.

## What if my disk drive doesn't meet the write-speed requirement?

If a disk drive with streaming storage rates <300 MB/sec is used, you will not be able to stream data to the drive without gaps. The unit will still write to the drive, but it will not be seamless. All other functions will work, including capturing and storing up to 1 second of data with Signal Vu-PC. There are no spin-drives that meet the requirement for write speed. Many solid-state drives meet the requirement. The write speed of your drive can be determined from the manufacturer's specifications

## What PC should I get to work with the RSA306?

Any PC that meets the performance requirements should work. Tektronix doesn't make a specific recommendation, but a list of models we've evaluated is shown below. In one case, we've found an Intel core i5-based tablet (Surface 3 Pro) that does meet minimum signal duration specifications.

Manufacturer	Model	Processor	Meets minimum signal duration specification?	Meets streaming data requirement?
Dell	XPS15-6842sLV	Intel corei7-4702HQ 2.2GHz	Yes	No (spin drive)
Lenovo	Yoga 2 Pro	Intel corei7-4500U 1.8GHz	Yes	No (spin drive)
Microsoft	Surface 3 Pro	Intel core i7-5650U @ 1.7-2.3 GHz	Yes	Yes (Solid-state drive)
Microsoft	Surface 3 Pro	Intel corei5-4300U CPU @ 1.7-2.5 GHz	Yes	Yes (Solid-state drive)
Motion Computing	F5te	Intel core i7-3667 CPU @ 2.00 GHz	Yes	Yes (Solid-state drive)
Toshiba	Satellite s55t-B	Intel Core i7- 4710HQ 2.5GHz	Yes	No (spin drive)
Lenovo	Think Pad	Intel corei7 3632QM 2.2 GHz	Yes	No (spin drive)