

Solicitation NNA16568642Q-AGS, Amendment No. 1

Responses to Vendors' Questions

Q1.) Will the end user also consider a 16-bit A/D converter with a sampling rate up to 1MS/sec?

A1.) No. The end-user requires a 24-bit A/D converter.

Q2.) Is it only acoustic emissions you are looking to measure rather than ultrasonic or vibration.

A2.) The end-user will be measuring pressure perturbations from 1 Hz to 500 kHz. This encompasses the range of frequencies from vibration to acoustics to ultrasonic.

Q3.) What is the GPS time stamping resolution requirement?

A3.) It must have built-in IRIG and GPS absolute time synchronization capability reference to the data sampling clock allowing an increased resolution of measurement to the selected sample rate for the respected channel. For the case of a 500 KHz/channel sample rate, the unit must provide no more than a 20 PPM maximum drift, but with a measurable time base resolution of the data to 2 us per sample.

Q4.) What is the GPS update rate requirement? (e.g., 10Hz, 100Hz, etc)

A4.) The GPS update requirement must be consistent with the resolution requirement stated above.