Salient Characteristics

Commercial Availability Certification:
I have evaluated the commercial marketplace and determined that all of the salient characteristics documented below are available in products/services offered in the commercial marketplace.

Signature (typed name): [redacted]
Technical Point of Contact (TPOC)

The Government requires two (2) oscilloscopes that can fulfill the following minimum requirements:

- Equipped with four (4) analog input channels each with
  - DC and AC input coupling
  - 1 Megaohm (MΩ) and 50 ohms (Ω) input impedances
  - 1 MΩ sensitivity range – 500 microVolt per division (μV/div) to 10 volts per division (V/div)
  - 50 Ω sensitivity range – 1 milliVolt (mV)/div to 1 V/div
  - Maximum input voltage, 1 megaOhm (MΩ) - 300 Root Mean Square Voltage (V_{RMS})
  - Maximum input voltage, 50 Ω - 5.5 V_{RMS}, with peaks less than ±20 V.
- 1 Gigahertz (GHz) bandwidth on all four (4) analog channels
- Capable of real-time analog sampling at 50 GigaSamples/second (GSa/s) when using two (2) channels simultaneously and 25 GSa/s when using four (4) channels simultaneously
- The record length on each channel shall be 62.5 million points
- 12 bit acquisition architecture — Provides high resolution measurements across all four (4) analog input channels.
- Equipped with edge, pulse width, rise/fall time, sequence, logic, window, timeout trigger types
- Capable of automatic saving of waveforms based on trigger
- Equipped with a 500,000 waveforms per second capture rate
- Equipped with both an auxillary-in connection for triggering and auxillary-out connection to send a pulse out when oscilloscope triggers
- Remote control of oscilloscope over a network connection using standard web browser
- Capable of simultaneously observing both time- and frequency-domain views of the four input signals with independent settings for each domain
- Equipped with separate removable solid state drives (SSD) with Windows 10 and a closed embedded operating system. Thus, the user can swap between the open Windows 10 configuration or the closed embedded operating system that boots as a dedicated scope with no ability to run or install other programs.

- Field upgradable bandwidth — Supports bandwidth configurations of one (1), two and a half (2.5), four (4), six (6), eight (8), or ten (10) gigahertz (GHz), with the ability to upgrade at any time through a license key without hardware changes.
- Equipped with a 15.6 inch (”) built-in, touchscreen display with 1920x1080 pixel resolution
- Able to fit in a standard 19 inch (”) instrumentation rack
- Equipped with a handle for carrying
- Equipped with a 250+ Gigabyte (GB) removable SSD
- Equipped with 1 Gb/s Ethernet port DisplayPort connection and four (4) or more USB 3.0 ports
- Shipping to Aberdeen Proving Ground, MD 21005

Contracting Officer:

7/9/2026 X Joseph Dellinger
Contracting Officer (KO) Signed by: USA