www.fineprocurementplus.uitm.edu.my



Tawaran Syarikat

Calit

MAKLUMAT SPESIFIKASI ITEM

No Pelawaan	:	UiTM/B1/PER/SHR/B/0625/0038
Butiran Tawaran	:	Cadangan Membekal, Menghantar, Memasang, Mengujilari Dan Menyelenggara Peralatan Pengajaran dan
Keterangan Item	:	0609060100036 : Oscilloscope
Nama Spesifikasi	:	PKE 2025 (V2) : 2 Channel 200 MHz Digital Oscilloscope
Kuantiti	:	15.000

Butiran Keperluan

1	General

Ι

- Bandwidth: 200 MHz
- Channels: 2-channel
- Sample Rate: 2 GS/s sample rate on all channels or better
- Record Length: 2M point record length on all channels or better

Π

- 7-inch TFT LCD WVGA
- Automatic measurements 14 amplitude, 14 timing, and 4 pulse count measurements

III

- USB 2.0 host port on the front panel for quick and easy data storage.
- USB 2.0 device port on rear panel to connect to a PC and remotely control the instrument
- Provides helpful on-screen tips for users
- Built-in oscilloscope handbook provides operating instructions and oscilloscope fundamentals
- Integrated courseware feature provides lab exercise guidance on the display
- Autoset, Cursors, and Automated measurements can be disabled to help educators to teach basic concepts to students
- 2 Vertical system

Butiran Keperluan

Ι

- Vertical resolution: 8 bits
- Input sensitivity range: 500 $\mu\text{V/div}$ to 10 V/div
- DC gain accuracy: +3% full scale ($\geq 10 \text{ mV/div}$) +4% full scale (10 mV/div)
- Maximum Input Voltage: 150 Vrms, 200 Vpk
- Offset range: 500 uV/div to 200 mV/div: +2 V , > 200 mV/div to 10 V/div: +100 V
- Bandwidth limit: 20 MHz (Typ)
- Input coupling: DC, AC (10 Hz cutoff frequency)
- Input impedance: 1 M Ω ± 2%, 16 pF ±3 pF
- Vertical zoom: Vertically expand or compress a live or stopped waveform
- 3 Horizontal system

Ι

T

5

Ι

- Timebase accuracy: 50 ppm ± 5 ppm per year (aging)
- Timebase range: 2 ns/div to 50 s/div
- · Horizontal zoom: Horizontally expand or compress a live or stopped waveform
- Deskew range: ± 100 nsec
- 4 Trigger system
 - External trigger input: Included
 - Trigger modes: Auto, Normal, Single, Force
 - Trigger Types (Edge): Trigger on a rising, falling, alternating or either edge of any source
 - Trigger Types (Pulse Width): Trigger on a pulse of a selected channel with a time duration that is
 - 'less than a value,' 'greater than a value' or 'inside a time range' Range minimum: 10 ns, 10 s max
 - Trigger source: CH1, CH2, AUX IN, AC Line
 - Trigger Coupling: DC, Noise Reject, High Frequency Reject, Low Frequency Reject
 - Trigger signal frequency readout: Provides a frequency readout of the trigger source up to instrument bandwidth
 - Waveform measurements
 - Cursors: Time, Amplitude, Screen
 - Automated measurements: 32, of which up to 4 can be displayed on-screen at any one time. Measurements include: Period, Frequency, Rise Time, Fall Time, Positive Duty Cycle, Negative Duty Cycle, Positive Pulse Width, Negative Pulse Width, Burst Width, Phase,
 - Positive Overshoot, Negative Overshoot, Peak to Peak, Amplitude, High, Low, Max, Min, Mean, Cycle Mean, RMS, Cycle
 - RMS, Positive Pulse Count, Negative Pulse Count, Rising Edge Count, Falling Edge Count, Area, Cycle Area, Delay FR,

Tawai

Calit

Butiran Keperluan Calit **Tawaran Syarikat** • Delay FF, Delay FR, and Delay RR. T • Gating: Isolate the specific occurrence within an acquisition to take measurements on, using either the screen, between waveform cursors or full record length Waveform math 6 Τ • Arithmetic: Add, subtract, multiply, divide, FFT (magnitude), FFT (phase), low-pass filter • FFT: Window types: Hanning, Flat top, Rectangular, Blackman-Harris Vertical scaling: dB (logarithmic) or RMS (linear) Horizontal scaling: User-defined span and center frequency settings, or Auto Setup Display system 7 T • Display Type: 7-inch TFT Color Display or better • Display Resolution: 800 horizontal by 480 vertical displayed pixels (WVGA) • Waveform styles: Vectors, Variable persistence, and Infinite persistence. • Format: YT and XY Supplied Accessories 8 T • Probe set Per Unit • AC Plug Per Unit Manual and Documentation 9 Original copies of user and operational manual of the equipment must be provided T Installation, Testing and Commissioning 10 T • Tenderers is required to install and commissioning the proposed equipment in the specified laboratory location in Faculty of Electrical Engineering, UiTM Shah Alam by their gualified trainers. • Installation, testing and commissioning of the entire system should be completed within one month from the delivery date.

11 Training

Butiran Keperluan

- I Tenderers are required to provide training for the use, maintenance and troubleshoot of the equipment to the Technical Staff & Lecturer of Faculty of Electrical Engineering, UiTM Shah Alam and all trainingrelated costs are borne by the tenderers
- 12 After Sales Service
- Ι

 $\bullet\,$ Tenderers must have local service for repair services and provide on call services when required by UiTM.

• Tenderers must provide details of the warranty. (warranty 3 years)

Tawaran Syarikat