

MAKLUMAT SPESIFIKASI ITEM

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MAKLUMAT SPESIFIKASI ITEM

No Pelawaan	: UiTM/B1/PER/SHR/B/0725/0041
Butiran Tawaran	: Cadangan Membekal, Menghantar, Memasang, Mengujilari Dan Menyelenggara Peralatan Pengajaran dan
Keterangan Item	: 0609060100036 : Oscilloscope
Nama Spesifikasi	: FKE SEMIKONDUKTOR 2025 : Oscilloscope 2 channels with Function Generator (Version 2.0)
Kuantiti	: 2.000

Butiran Keperluan

1 GENERAL REQUIREMENTS :

I Vendors must comply with all the requirements specified in this tender document.

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II Vendors must bear all costs of supplying the specified quantity of items to UiTM. Such costs shall include the costs of delivery, installation, commissioning, training, troubleshoot and maintenance work (including parts labour and on-site service) within the specified warranty period

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2 GENERAL SPECIFICATION :

I Bandwidth : 70 MHz (base), upgradeable to 100 MHz

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II Channels : 2 analog + 1 digital (external trigger)

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III Oscilloscope with Function Generator

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IV Sample Rate : Up to 2 GSa/s

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Butiran Keperluan

- V Memory Depth : 2 Mpts/channel
- VI Waveform Update Rate : 200,000 wfm/s
- VII Display : 7” TFT LCD WVGA
- VIII Mechanical & Environmental :
 - Size : 314mm (Max) × 165mm (Max) × 130mm (Max)
 - Weight : Not more than 3.23kg
 - Power : 100-240 V, 50/60 Hz
 - Operating Temperature : 0°C to 50°C
 - Certifications: CE, UL, CSA, IEC61010, EMC compliant
- IX Math Functions : Add, subtract, multiply, divide, FFT
- X Automatic Measurements : 32 types (amplitude, timing, pulse count)
- XI Trigger System :
 - Modes: Edge, pulse width, setup & hold, video, protocol-specific (I2C, UART, etc.)
 - Sensitivity: Supports internal and external triggers with fine voltage control
 - Trigger Holdoff: 60 ns to 10 s
- XII Acquisition System :
 - Modes: Normal, peak detect, averaging, high-res (up to 12 bits), segmented
 - Segmented Memory: Up to 500 segments, 1 μs re-arm time
- X Vertical System :
 - Input Impedance : 1 MΩ, 16 pF
 - Input Sensitivity : 500 μV/div to 10 V/div
 - Max Voltage : 150 Vrms / 200 Vpk
 - Vertical Resolution : 8 bits
- XIV Horizontal System :
 - Time Base : 5 ns/div to 50 s/div
 - Horizontal Resolution : 2.5 ps
 - Timebase Accuracy : ±50 ppm ± aging
- XV Built-in Waveform Generator (WaveGen) :
 - Waveforms : Sine, square, ramp, pulse, noise, DC
 - Max Freq : 20 MHz (sine)
 - Modulation : AM, FM, FSK
 - Output Amplitude : Up to 20 Vpp (Hi-Z), up to 10 Vpp (50 Ω)

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Tawaran Syarikat

Butiran Keperluan**Calit****Tawaran Syarikat**

XVI Serial Protocol Analysis :

- Supported Protocols : I2C, SPI, UART/RS-232, CAN, LIN (Standard)
- Triggering & Decoding Included

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XVII Advanced Features :

- Frequency Response Analysis : 10 Hz to 20 MHz, Bode plot enabled
- Integrated Digital Voltmeter & Counter
- Autoscale & Zoom Modes
- Waveform Storage : CSV, binary, image, Bode data
- PC Connectivity : USB Host & Device, Ethernet
- Software product compatible (for remote control and analysis)

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XVII Included Accessories :

- I -2x Passive Probes (100 MHz, model N2140A)
- Localized power cord
- Software product
- 3 year warranty
- Secure erase functionality
- Multi-language support (13 languages)

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3 CATALOGUES / BROCHURES :

- I Vendors must provide the catalogues / brochures / technical specification manuals with the tender proposal.
- II Original copies catalogue of user, brochure, operational manual and clear technical specification of the equipment must be provided
- III Please include a drawing illustrating connection between the components. (if relevant)
- IV The equipment must be supplied with latest programming software and compatible to operate via latest Windows operating system. (if relevant)
- V The equipment offered by vendor must be of the latest available model.

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4 TRAINING :

- I Tenderers are required to provide training for the use, maintenance and troubleshoot of the equipment to the Technical Staff & Lecture of Electrical Engineering School, College of Engineering, UiTM Shah Alam and all training-related costs are borne by the tenderers.
- II A minimum of one (1) days training for a minimum of five (5) participants covering each module. (Vendors must provide details/syllabus of the training module)

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Butiran Keperluan

- III Complete training materials and documentation must be provided to all participants
- IV The training MUST be conducted by trainers who are certified by principal. Please attach the trainer's certification that is certified by principal supplier.
- 5 WARRANTY AND SUPPORT :
- I Warranty for the equipment is three (3) years warranty.
- II Installation, maintainance, testing and commissioning of the entire system should be completed within (12) week from the delivery date.
- III Vendors must have local service for repair services and provide on call services when required by UiTM
- IV Vendors must provide details of warranty. INCLUDING ALL parts, labour, basic phone support for hardware issue, repairs onsite) Please attach the Letter of Warranty (LOW) from the principle, which states that UiTM is entitled to 3 years of warranty upon project completion
- V Vendors be responsible for the installation, commissioning and test-run of the equipment and accompanying software (if applicable) to the satisfaction of UNIVERSITI TEKNOLOGI MARA before final acceptance.
- VI All cost on delivery. installation, commissioning and test run shall be borne by the vendor.
- VII The vendors MUST provide a genuine product. The vendors must be supported back-to-back by a principle (manufacturer) to provide maintenance services for equipment supplied. The vendors should attach a Letter of Authorization (LOA) from Distributors/ Principal.
- VIII Free support through fax, email, telephone must be provided during the warranty period
- 6 OTHER REQUIREMENTS :
- I Note that all other related material, components and cabling, which are required to ensure full operation of the above package must be supplied and borne by vendors

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