

On behalf of INDIAN INSTITUTE OF INFORMATION TECHNOLOGY & MANAGEMENT – KERALA (IIITMK), the Manager (Finance and Administration) invites offers for the “HW Debug Tools ” from experienced and qualified vendors.

Detailed Specification

Item 1) DEBUGGER FOR ARM Microcontrollers -5 NOS

Specification		Compliance(Yes/No)
RAM breakpoints	Unlimited	
ROM breakpoints (Arm7/9)	2 max	
ROM breakpoints (Arm Cortex-M)	6 max	
Execution breakpoints (Set while executing)	Supported	
Access breakpoints (Arm7/9)	2 max (R/W only, with value)	
Access breakpoints (Arm Cortex-M)	4 max (with value)	
Real-time agent (Arm7/9)	Supported	
<u>Serial wire debug (Arm Cortex-M)</u>	Supported	
<u>Data trace (Arm Cortex-M with SWO)</u> <u>(Serial wire viewer - SWV)</u>	Supported	
JTAG/SW clock	≤ 10 MHz	
Memory R/W	≈ 28 KB/s	
Flash R/W	≈ 25 KB/s	
Trace streaming	1 Mb/s	
<u>10-pin (0.05")</u> <u>(Cortex debug connector)</u>	Supported	
<u>20-pin (0.1")</u> <u>(Arm standard JTAG connector)</u>	Supported	
16-pin (0.1") (Infineon OCDS connector)	Supported	
14-pin (0.1") (ST μPSD connector)	Supported	

I/O voltage range	2.7 V - 5.5 V	
XC800, µPSD, XC166/XE166/XC2000	Supported	
LPC950 (8051)	Supported	
Arm7, Arm9	Supported	
Arm Cortex-M	Supported	
Preferred : ULINK2		

Item 2) DEBUGGER FOR PIC Microcontrollers -5 NOS

Specification		Compliance(Yes/No)
MCU Support	Support for PIC10 [®] , PIC12 [®] , PIC16 [®] , PIC18 [®] , dsPIC30/33 [®] , PIC24 [®] and PIC32 [®] devices	
Key Features	support with mikroC™, mikroBasic™ and mikroPascal™ compilers for PIC [®] , dsPIC [®] and PIC32 [®]	
Target Power	voltage range from 1.8–5V , up to 150mA of current	
Input Voltage	5V (via USB)	
Compatibility	IDC10	
Architecture	PIC Family	
Preferred : mikroProg		

ITEM3: DEBUGGER FOR TI Microcontrollers-4 NOS

Description	Compliance(Yes/No)
Support for USB High Speed (480 Mbit/s)	
Support targets with 14-pin TI JTAG connector or 20-pin TI JTAG connector as used by Texas Instruments embedded processors.	
Support for the following processor cores: TMS320C28x, TMS320C54x, TMS320C55x, TMS320C64x+, TMS320C674x, TMS320C66x, ARM 9, ARM Cortex cores: A (A8, A9 and A15), M (M0, M3 and M4) and R (R4 and R5).	
Supports cable-break detection	
Supports target power loss detection	
Support for multiple FTDI devices	
Adaptive clocking	
LED light to indicate active USB connection	
Support for Code Composer Studio v4 and newer	
Preferred : XDS100v2	

Terms & Conditions

- Item offered must be standard, branded & proven product and already available in the market.
- Tender Documents shall be available only on the Internet and shall not be available for sales elsewhere. Cost of tender document, 0.2% of the tender value rounded to nearest multiple of 100, subject to minimum of Rs. 400 and maximum Rs.1500/- + GST(5%) as applicable to be submitted along with the tender.
- Replacement/Warranty/guarantee terms of the product offered should be as per manufacturer's policy.
- Materials must be properly packed against any damage and insured except where hand delivery is proposed.
- Delivery / installation at the store should strictly be completed within the stipulated period of delivery by the supplier.
- Supplier will have to pay penalty on non-delivery after expiry of delivery date @ 0.5% per week subject to maximum of 10%.

- Supply & installation at IIITMK, Technopark, Trivandrum
- Technical literature/ hand book /data sheets if any etc. must be sent along with the bid.
- Equipment must be provided with the stipulated guarantee against manufacturing and functional defects and the date of warranty shall commence from the date of acceptance/ taking over in good condition.
- Equipment supplied will be subjected to performance tests and in case the articles do not function / reach the expected standard, the suppliers are liable to replace the items free of cost at site. Cost of returning faulty goods will be to supplier's account.
- Prompt and efficient after sales service must be rendered free within the guarantee period by the supplier
- If any equipment or part thereof is lost or rendered defective during transit, the supplier shall immediately arrange for the supply of the equipment or part thereof as the case may be.
- IIITMK reserves the right to cancel the order without any liability in case the materials are not supplied within the stipulated period or non - fulfillment of contractual obligations.
- The tenderer must pay earnest money along with his tender as given in the notice inviting tenders failing which the tender will be summarily rejected. Earnest Money Deposit of Rs. 2400/- be paid as demand draft favoring The Director, IIITMK payable at Trivandrum. No interest shall be paid by IIITMK on the Earnest Money Deposited by the tenderer. EMD of unsuccessful bidders will be returned without any interest, upon finalization of contract or on expiry of validity of offer. EMD of the successful tenderer will be returned without any interest, after receipt of performance security.
- Security deposit/ Performance Security: The selected tenderer shall deposit an amount equal to 5% of the value of contract within 7 days from the date of Purchase Order as DD payable at Trivandrum, from any Scheduled Bank or Nationalized Bank in favour of The Director, IIITMK or Bank Guarantee from a Scheduled banks in India. EMD will be forfeited if security deposit is not remitted as mentioned above. The security deposited by the successful tendered will be retained towards the retention amount and will be released after the warranty period.
- IIITMK shall make payment within 30 days of satisfactory installation and acceptance of the items supplied and issue of warranty certificate. Any condition for payment of advance shall not be acceptable to IIITMK. In case of any defects to the materials supplied by the bidder, it should be replaced prior to release of the payment.
- Warranty/ Support: The items dispatched by the schedule of requirement shall carry minimum three years of replacement warranty from the date of acceptance of the items by IIITMK. Warranty shall include free maintenance including free replacement of parts which shall be done by the supplier. The defects, if any, shall be attended to on immediate basis but in no case any defect should remain unattended for more than 48 hours. The defects, if any, during the guarantee/ warranty period are to be rectified free of charge by arranging the replacement wherever necessary. This includes cost, insurance, freight, custom duty, octroi, local taxes if any, should be borne by the bidder. A clear confirmation should be given for this item.
- Quoted rate: The quoted rates shall be inclusive of all taxes and also the bidder shall include charges like GST, excise duty, levies, freight, handling, loading, unloading, insurance premiums and placement at the facility and commissioning and installation and shall remain firm throughout the contract period. No compensation will be paid in case of any upward revision in the statutory taxes and levies or introduction of new taxes and levies.
- Firm period of Tender will be 90 days from the date of notification.

- IIITMK reserves the right to accept any quotation and to reject any or all quotations. IIITMK will place order on the vendor, whose offer has been determined to be substantially responsive to the tender.

Place: Technopark

Date: 04/10/17

Manager (F&A)

IIITM-K
Financial Bid
Tender Enq. No. _____

Total amount for providing HW Debug Tools at IIITMK as per the terms and conditions contained in the Tender document shall be Rs. _____
(Rupees. _____) including all taxes.