

**Indian Institute of Technology, Kanpur
Department of Physics**

Enquiry no.: IITK/PHY/264-3

Enquiry date: 1/11/2012

Closing date: 17/11/2012

Sealed Quotations are invited for:

Four-Input Ultra-Fast Multiscaler, with the following specifications.

1. Four-Input Ultra Fast Multiscaler/TOF Qty. 01

Specifications:

Timing Resolution	1 ns for each input, not more than 2ns if four inputs are used
Max. Count(burst) Rate	1 GHz; not less than 500 MHz for simultaneous use of four channels
Bandwidth:	20 GHz (with no response dips)
Start and Stop Inputs	To work not less than 900 MHz, +/- 3V falling edge discriminator; Sensitivity to 30 mV
Dynamic Range	35/36 Bits (32 ns to 68.7 s programmable with 2 ns resolution)
Dead time	No dead time between time bins
Double Counting	No Double Counting
Data Transfer Rate(to PC)	Should be > 10Mevents / sec
Operating modes	Three required operating modes: 1) Continuous (wrap around) 2) Stop after sweep 3) Sequential
Output	There should be at least one TTL Sync output for triggering external device
Input Ouput port	8 bit
Design	Should be a computer based board with PCI Compatible Board design
Software	Software to Interface with PC
Differential non-linearity	<+-1%
Start /trigger delay	<11 ns
Additional Features: 1) A two port 800 MHz Discriminator with Fiber Optical Isolation	The discriminators should be readily assembled with the Multiscaler

Terms and conditions:

Quote should be made in two parts: Technical bid and Financial bid separately in sealed envelopes.

Financial bids for the product whose technical bid is not acceptable will not be opened. Any quote with the financial bid included in the technical bid will be summarily rejected.

The sealed envelopes with the quotes should be superscribed with the Inquiry number and whether it is a technical or financial bid.

The delivery period should be specifically stated.

Quotes should be made options for the either of the following delivery modes

- Ex-works for pickup by our world-wide transport provider
- FOB in country of origin
- CIF, New Delhi
- For delivery to IIT Kanpur

Maximum educational discounts should be applied – this equipment will be used for research as well as teach and train students.

Quotes should have a minimum validity of 60 days

Address the quotations to:

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