

**REQUEST FOR QUOTATION
THIS IS NOT AN ORDER**

Return Quotes To:

The University of Tennessee
Purchasing Department
5723 Middlebrook Pike
Knoxville, TN 37921

Information	
Date:	10/27/2009
RFQ No:	6000037627
Collective No:	10033414
Return Quote By:	11/05/2009 5:00 PM E.S.T.
Promised Ship Date: (Furnish)	_____
Payment Terms: (Furnish)	_____
FOB UT Dest Unless Otherwise Specified Below	
Buyer:	Bradley New
Phone:	865-974-3108
Fax:	865-974-2973

Vendor Address
Bidder # D99999
University of T
PARENT RFQ
UT TN

Item	Quantity	UM	Material/Description	Price Per Unit	Net Amount
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NOTE: Any potential bidder not otherwise notified by the University for this requirement must register at: <http://purchasing.tennessee.edu>. Scroll to "Bid & Proposal Advertisements" under Quick Links, and follow the instructions. Failure to do so will result in rejection of your bid.

Items to be Stanford Research Systems or equal (per attached specifications)

00001	1	EA	SR785 DYNAMIC SIGNAL ANALYZER	_____	_____
Per attached specifications					
Manufacturer _____ # _____					
Warranty _____					

DELIVERY MAY BE A FACTOR IN THE AWARD

Delivery is requested as soon as possible. Please state your best delivery in the space provided below:

Best delivery date _____

SPECIAL BID CONDITIONS

SBC 1 CONFLICT OF CONDITIONS

In the event that there are any conflicts between the general bid conditions and these special bid conditions the special bid conditions shall take precedence.

SBC 2 BID AS SPECIFIED OR EQUAL

The items on this request for quotations shall be as specified or equal. When the specifications specify a product by name of a manufacturer or vendor, or whenever the terms (similar to) and (equal to), or (approved equal) are used, the terms named are intended to set the standard for such materials or articles. The burden of proof shall rest solely with the supplier to prove that the proposed substitutes are equal to the materials or articles specified. The university shall be the sole judge as to whether the items submitted are equal to those specified.

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SBC-3- INFORMAL BID
When responding in writing the envelope in which quotations are submitted should be identified by placing the required information on the outside of the envelope as follows: It is imperative that your name and address appear in the upper left corner of the envelope and that the collective number and due date appear in the lower left hand corner. Electronically transmitted bids will also be considered only whenever they are received in hand at the purchasing office by the time and date set for receipt of bids. Such electronically transmitted bids shall contain specific reference to the request for quotation inquiry number and due date; the items, quantities, and prices for which the bid is submitted; the time and place of delivery; reference to any other requested information; and a statement that the bidder agrees to all the terms, conditions and provisions of the request for quotations. All bids must be received in the purchasing department on or before the date and hour specified. Bids that miss this deadline will be rejected and returned unopened or kept on file in the purchasing department. No qualifying letters or statements from vendors will be considered a justification for accepting late bids.

For your convenience in submitting electronic bids, our facsimile (fax) number is:
Knox campus: 865-974-2973

SBC-4 WARRANTY
Each bidder is required to attach to their quotation a detailed statement of warranty or guarantee. The statement should include the period of time involved as well as the specific details of the warranty.

SBC-5- FOB
PLEASE QUOTE F O.B. DESTINATION DELIVERED. TO INCLUDE ANY AND ALL FREIGHT CHARGES.

SBC 6 BID MUST BE IN ACCORDANCE WITH SPECIFICATIONS
Bidders are cautioned that unless otherwise stipulated in their bids, it will be assumed that they are bidding in strict accordance with the specifications and will be required to strictly comply therewith. Any deviations whatever from the specifications must be fully set forth and itemized in detail in a letter accompanying the bid. Generalized statements submitted with your bid in order to avoid complying with this requirement in full detail will not be accepted.

SBC 7 INTERPRETATIONS AND ADDENDA
Any questions concerning conditions and specifications should be directed to the purchasing department in writing no later than five (5) days prior to the bid opening. Inquiries must reference the date of bid opening and RFQ number.

GENERAL BID CONDITIONS: All University of Tennessee general bid conditions apply to this bid. To view these conditions, which include protest procedures, please visit website

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"http://purchasing.tennessee.edu/general_bid_conditions.htm". If for some reason you are unable to access this website you may telephone (865) 974-3311 for a hard copy of these conditions.

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IF THE BIDDER TAKES EXCEPTION TO ANYTHING IN THE SPECIFICATIONS OR TERMS AND CONDITIONS. THE EXCEPTION MUST BE LISTED BELOW. IF NECESSARY YOU MAY SUPPLEMENT YOUR COMMENTS WITH AN ATTACHEMENT LISTING YOUR EXCEPTIONS. IF NO EXCEPTIONS ARE TAKEN, WRITE "NONE" IN THE AREA FURNISHED BELOW. IF NO COMMENTS ARE FURNISHED IT WILL BE ASSUMED THAT NO EXCEPTIONS ARE BEING TAKEN.					

CERTIFICATION: MY COMPANY IS CLASSIFIED AS A:

NOTE: It will be assumed that business category is large if no response is furnished

LARGE BUSINESS _____ SMALL BUSINESS _____ WOMAN OWNED _____

PLEASE INDICATE BELOW ONLY IF YOUR FIRM IS AT LEAST 51 PERCENT OWNED BY A MEMBER(S) OF THE FOLLOWING GROUPS

BLACK AMERICAN _____ HISPANIC AMERICAN _____ ASIAN PACIFIC AMERICAN _____ NATIVE AMERICAN _____ ASIAN INDIAN AMERICAN _____

IT IS UNDERSTOOD AND AGREED THAT THIS BID, WHEN CERTIFIED BY AN AUTHORIZED SIGNATURE, SHALL CONSTITUTE AN OFFER WHICH WHEN ACCEPTED IN WRITING BY THE UNIVERSITY'S PURCHASING DEPARTMENT AND SUBJECT TO THE TERMS AND CONDITIONS OF SUCH ACCEPTANCE, WILL CONSTITUTE A VALID AND BINDING CONTRACT BETWEEN THE UNIVERSITY OF TENNESSEE AND THE BIDDER/CONTRACTOR SUBMITTING SUCH OFFERING.

WE OFFER TO SELL TO YOU THE ABOVE MATERIAL(S) OR SERVICES AT THE PRICE AND TERMS SPECIFIED HEREON AND IN ACCORDANCE WITH THE UNIVERSITY'S GENERAL AND ANY SPECIAL BID CONDITIONS FURNISHED AND INCORPORATED INTO THIS DOCUMENT. ALL EXCEPTIONS, ALTERNATIVE MATERIALS, OR SPECIFICATIONS IF ANY HAVE BEEN CLEARLY INDICATED. IF YOU HAVE ANY QUESTIONS ABOUT THIS REQUEST FOR QUOTATION, CONTACT THE BUYER AT THE ADDRESS OR TELEPHONE NUMBER SHOWN ABOVE.

WHEN OFFERING A 'NO BID' PLEASE INDICATE YOUR REASON(S) BELOW AND RETURN THIS INFORMATION WITH YOUR RESPONSE

_____ DO NOT HANDLE THIS TYPE EQUIPMENT _____ CANNOT MEET SPECIFICATIONS
 _____ CANNOT MEET REQUIRED DELIVERY _____ MATERIALS NOT AVAILABLE
 _____ OTHER (SPECIFY): _____

IN COMPLIANCE WITH THE REQUIREMENTS OF CHAPTER 878 PUBLIC ACTS OF 2006, THE CONTRACTOR HEREBY ATTESTS THAT THE CONTRACTOR SHALL NOT KNOWINGLY UTILIZE THE SERVICES OF AN ILLEGAL IMMIGRANT IN THE PERFORMANCE OF THIS CONTRACT AND SHALL NOT KNOWINGLY UTILIZE THE SERVICES OF ANY SUBCONTRACTOR WHO WILL UTILIZE THE SERVICES OF AN ILLEGAL IMMIGRANT IN THE PERFORMANCE OF THIS CONTRACT.

ALL FIRMS WISHING TO DO BUSINESS WITH THE UNIVERSITY MUST LIST THEIR FEDERAL TAX ID NO. OR SOCIAL SECURITY NO. (IF INDIVIDUAL) IN THE SPACE PROVIDED:
 TAX ID OR SSN: _____

 (Signature)

 (Printed Name and Company Name)

 (Telephone #, Toll free if available)

 (E-Mail Address)

 (Date)

 (Title)

 (FAX #)

 (WEB Site Address)

Specifications

Specifications apply after 30 minutes warm-up and within 2 hours of last auto-offset. Measured with 400 line resolution and anti-alias filters enabled unless stated otherwise

Measurement Groups

Groups FFT, Correlation, Time Histogram, Swept-Sine, Order Tracking

Frequency

Range 102.4 kHz or 100 kHz (both displays have the same range)
FFT spans 195.3 mHz to 102.4 kHz or 191 mHz to 100 kHz. The two displays can have different spans and start frequencies.
FFT resolution 100, 200, 400 or 800 lines
Real-time bandwidth 102.4 kHz (highest FFT span with continuous data acquisition and averaging)
Accuracy 25 ppm from 20 °C to 40 °C

Dynamic Range

Dynamic range 90 dB typical, 80 dB guaranteed (FFT and Octave), 145 dB typical (Swept-Sine) Includes spurs, harmonics, intermodulation distortion, and alias products. Excludes alias responses at extremes of span.
Harmonic distortion <-80 dB (single tone in band)
Intermod distortion <-80 dB (two tones in band each less than -6.02 dBfs)
Spurious <-80 dBfs
Alias responses <-80 dBfs (single tone outside of span, <0 dBfs, less than 1 MHz)
Full span FFT noise floor -100 dBfs typical (input grounded, >-30 dBV, Hanning window, 64 rms averages)
Residual DC response <-30 dBfs (FFT with Auto-Cal on)

Amplitude Accuracy

Single channel ± 0.2 dB (excluding window effects)
Cross channel ± 0.05 dB, DC to 102.4 kHz (frequency response measurement, both inputs on the same range rms averaged)

Phase Accuracy

Single channel ± 3.0 deg. relative to external TTL trigger (-50 dBfs to 0 dBfs, freq <10.24 kHz, center of frequency bin, DC coupled) For Blackman-Harris, Hanning, Flat-Top and Kaiser windows, phase is relative to a cosine wave at center of time record For Uniform, Force and Exponential windows, phase is relative to a cosine wave at beginning of the time record
Cross channel ± 0.5 deg (DC to 51.2 kHz)
 ± 1.0 deg. (DC to 102.4 kHz)
(frequency response measurement, both inputs on same range vector averaged)

Signal Inputs

Number of inputs 2
Full-scale input range -50 dBV (3.16 mVp) to +34 dBV (50 Vp) in 2 dB steps
Maximum input level 57 Vp
Input configuration Single-ended (A) or differential (A-B)
Input impedance 1 M Ω + 50 pF
Shield to chassis Floating mode: 1 M Ω + 0.01 μ F
Grounded mode: 50 Ω (shields grounded in (A-B) mode)
Max. shield voltage 4 Vp
AC coupling 0.16 Hz cutoff frequency
CMRR 90 dB at 1 kHz (input range <0 dBV)
80 dB at 1 kHz (input range <10 dBV)
50 dB at 1 kHz (input range ≥ 10 dBV)
ICP signal conditioning Current source: 4.8 mA
Open circuit voltage: +26 V
A-weight filter Type 0 tolerance, ANSI standard S1.4-1983; 10 Hz to 25.6 kHz
Crosstalk <-145 dB below signal (input to input and source to inputs, 50 Ω receiving input source impedance)
Input noise <10 nVrms/ \sqrt Hz above 200 Hz (<-160 dBVrms/ \sqrt Hz)

Trigger Input

Modes Free Run, Internal, External, or External TTL
Internal Level adjustable to ± 100 % of input scale, positive or negative slope. Min. trigger level: 5 % of input range

External Level adjustable to ± 5 V in 40 mV steps, positive or negative slope.
 Input impedance: 1 M Ω
 Max input: ± 5 V
 Min. trigger amplitude: 100 mV

External TTL Requires TTL level to trigger (low < 0.7 V, high > 3.0 V)
Post-trigger Measurement record is delayed up to 100,000 samples after the trigger
Pre-trigger Measurement record starts up to 8000 samples prior to the trigger.

Tachometer Input

Pulses per revolution 1 to 2048
 RPM accuracy ± 50 ppm (typ.)
 Tach level range ± 25 V, ± 5 V, TTL
 Tach level resolution 20 mV @ ± 25 V, 4 mV @ ± 5 V
 Max tach input level ± 40 Vp
 Min tach pulse width 100 ns
 Max. tach pulse rate 750 kHz (typ.)

Transient Capture

Mode Continuous data recording
 Maximum rate 262,144 samples/s for both inputs
 Maximum capture length 2 Msamples (single input)
 8 Msamples with optional memory

Octave Analysis

Standards Conforms to ANSI standard S1.11- 1986, Order 3, Type 1-D
 Frequency range (Band centers)
Single channel
 1/1 Octave 0.125 Hz to 32 kHz
 1/3 Octave 0.100 Hz to 40 kHz
 1/12 Octave 0.091 Hz to 12.3 kHz
Two channels
 1/1 Octave 0.125 Hz to 16 kHz
 1/3 Octave 0.100 Hz to 20 kHz
 1/12 Octave 0.091 Hz to 6.17 kHz

Accuracy < 0.2 dB (1 second stable average, single tone at band center)
 Dynamic range 80 dB (1/3 Octave, 2 second stable average) per ANSI S1.11-1986
 Sound level Impulse, Peak, Fast, Slow and L_{eq} per ANSI S1.4-1983 Type 0 and IEC 651-1979 Type 0

Order Tracking

Delta order 0.0075 to 1
 Resolution up to 400 lines
 Amplitude accuracy ± 1 dB (typ.)
 Displays Order map (mag. and phase), order track (mag. and phase), orbit

Curve Fit and Synthesis

Type 20 poles/20 zeros curve fit (non-iterative rational fraction)
 Order selection Auto or manual
 Output format Pole-zero, polynomial, pole-residue

Source Output

Amplitude range 0.1 mVp to 5 Vp
 Amplitude resolution 0.1 mVp
 DC offset < 10.0 mV (typ.)
 Offset adjust ± 5 VDC (sine, two-tone, swept-sine)
 Output impedance < 5 Ω , ± 100 mA peak output current

Sine Source

Amplitude accuracy ± 1 % of setting, 0 Hz to 102.4 kHz, 0.1 Vp to 5 Vp into High-Z load
 Harmonics, sub-harm. 0.1 Vp to 5 Vp
 & spurious signals < -80 dBc (fundamental < 30 kHz)
 < -75 dBc (fundamental < 102 kHz)

Two-Tone Source

Amplitude accuracy ± 1 % of setting, 0 Hz to 102.4 kHz, 0.1 Vp to 5 Vp into High-Z load
 Harmonics, sub-harm. < -80 dBc, 0.1 Vp to 2.5 Vp

White Noise Source

Time Record Continuous or burst
Bandwidth DC to 102.4 kHz or limited to span
Flatness <0.25 dBpp (typ.), 5000 rms averages (<1.0 dBpp (max.))

Pink Noise Source

Bandwidth DC to 102.4 kHz
Flatness <2.0 dBpp, 20 Hz to 20 kHz (measured using averaged 1/3 Octave Analysis)

Chirp Source

Time record Continuous or Burst
Output Sine sweep across the FFT span
Flatness ± 0.25 dB (1.0 Vp)

Swept-Sine Source

Auto functions Source Level, Input Range and Frequency Resolution
Dynamic range 145 dB

Arbitrary Source

Amplitude range ± 5 V
Record length 2 Msamples (playback from arbitrary waveform memory or capture buffer). Variable output sample rate.

General

CRT monitor Monochrome, 800H by 600V resolution
Interfaces IEEE-488 2, RS-232 and Printer interfaces standard. All instrument functions can be controlled through computer interfaces. A PC (XT) keyboard input is provided for additional flexibility
Hardcopy Print to dot matrix and PCL compatible printers. Plot to HP-GL or postscript plotters. Print/plot to RS-232 or IEEE-488 2 interfaces or to disk file. Additional file formats include GIF, PCX and EPS.
Disk 3.5" DOS format, 1.44 Mbytes
Preamp power Power connector for SRS preamps
Power 70 W, 100/120/220/240 VAC, 50/60 Hz
Dimensions 17" x 8 25" x 24" (WHL)
Weight 56 lbs.
Warranty One year parts and labor on defects in materials and workmanship