



Sierra Proto Express

1108, West Evelyn Ave., Sunnyvale, CA 94086
 Tel: 408-735-7137 Fax: 408-735-1408
 www.protoexpress.com

Quotation

Customer: Brookhaven National Laboratory	Quote Number: Q41816-1
	Quote Date: Nov 29 2007 Quote Valid Till: Dec 29 2007

Buyer: Andrey Sukhanov
 sukhanov@bnl.gov
 Tel: (631)344-7119 Fax:

Address: Bldg 555
 Upton, New York 11973
 United States

Payment Terms: NET 30

PART NUMBER: **INTC-PAN-V2** REV: 2

Layers 1	Indv Brd Dimensions 2.44 in x 2.44 in	Array [30 Boards] 15.1377 in x 12.598 in
Class 3 No	Minimum Trace (Outer layer) 7.874 Mils	Solder Mask Finish Standard (Semi-Gloss)
Milspec No	Minimum Space (Outer layer) 6.6 Mils	Carbon Ink No
ROHS compliant No	Minimum Trace (Inner layer) Not Applicable	Silk Screen No
Route and Retain Yes	Minimum Space (Inner layer) Not Applicable	Silk Screen Sides Not Applicable
Scoring No	Controlled Impedance No	Silk Screen Color Not Applicable
Extensive route No	Controlled Dielectric No	Internal Cut outs/Slots No
Material FR4	Minimum Drill to Copper distance Not Applicable	Counter Sink No
Finished Thickness 0.008 inchs.»	Minimum Hole Size 98.425 Mils	Counter Bore No
Thickness Tolerance Plus or Minus 10%	Blind vias No	Edge Plating No
Surface Finish Immersion Gold	Buried vias No	Edge Plated Holes No
Outer Layer Finish Copper 1 Oz	Solder Mask Sides Top only	Etchback No
Inner Copper Not Applicable	Solder Mask Yes	Entek No
Mixed Copper Not Applicable	Solder Mask Type LPI	
Gold Fingers No	Solder Mask Color Green	
Number of Holes Per Board 16 holes(480 holes/array)	Number of Plots 2	

Internal Rep: Rosy Bagai
Phone: 800-763-7503 **Fax:** 408-735-1408
Email: rosyb@protoexpress.com

Quote Line Item Number	Due Qty	Delivery Days	SubTotal	NRE	Netlist Test	Other	Total
Q41816-1A	240 Board(s)	5 Days	\$3835.35 Unit Price: \$15.98 (Tooling waived)	\$0.0	\$0.0	\$0.00	\$3835.35
Notes: (Testing will be done, but charges waived)							
Q41816-1B	240 Board(s)	10 Days	\$3716.32 Unit Price: \$15.48 (Tooling waived)	\$0.0	\$0.0	\$0.00	\$3716.32
Notes: (Testing will be done, but charges waived)							

This quote is only valid for 30 days unless otherwise agreed upon in writing by our representatives. Sale subject to limited warranty. Warranty extends only to bare PCBs and does not apply after components are added by you or others. Our liability shall not exceed price paid by you for the ordered PCBs. No change or addition to these terms, or any additional or different terms on your purchase order, shall be binding on us unless executed in writing by one of our officers.

Sierra Proto Express Sales Team: Phone: (800) 763-7503. Files for quotes and orders should be sent directly to files@protoexpress.com; not to your account manager. Any communication or files for Milspec and IPC Class3 quotes and orders should be sent to dedicated email inbox; MilspecFiles@protoexpress.com.

Thank you for the opportunity to quote your PCB needs.

Disclaimer: If IPC Netlist is not provided in 356 format, Sierra Proto Express will create a netlist from the incoming customer Gerber files to generate an electrical test program. In such cases, Sierra cannot guarantee, nor can it be liable for the electrical performance of the boards, since the test program itself is derived from the files submitted.