

BRAND NAME JUSTIFICATION FOR RESTRICTED COMPETITION

Items: Acromag FPGAs and accessories

Price: \$[REDACTED]

Brand Name Manufacturer: Acromag

A brand name only restriction is required for the purchase of the Acromag FPGAs and accessories. RFTS personnel have researched this type of FPGAs and have selected the Acromag cards and accessories based on the following specifications:

1. Utilizes the Xilinx Virtex-5 FPGA configured with 155,648 logic cells, 128 DSP48E slices, 32Mb x 32 DDR2 SDRAM and 1 Mb x 64 dual port SRAM
2. FPGA code loads from PCI bus or flash memory
3. PCI-X bus 100 MHz 64 bit interface
4. PMC form factor
5. 30 bi-directional differential signals using EIA RS485/RS422 transceivers
6. Updateable 30 LVDS signals if required in the future
7. PCI adapter card for plug into a PCI bus
8. Breakout cables and termination panels for the 68 pin SCSI-3 connector

The following market research was conducted, and results are as follows:

Internet research was performed on available FPGAs and available configurations. The beginning point was the understanding that a Virtex 4 FPGA was unacceptable based on experience with existing equipment. The Virtex 5 or greater gives enough logic cells and DSP slices to fulfill the RFTS prototyping requirements. No vendors were found that offered Virtex 6 or 7 in a configured board that provides the 30 differential or TTL signals and PCI interface that RFTS requires. Acromag was the only vendor found that offered a Virtex 5 with the required 30 Differential signals and a PCI interface.

RFTS would accept brand name or equal if the specifications listed above are met.

Based on the information above, this service/equipment is the only equipment that can meet mission requirements.

I certify that the supporting data presented in this justification are accurate and complete.



Anthony Carta, NE-E

Technical Representative

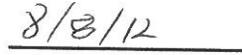
7-31-2012

Date

I hereby certify that this justification is accurate and complete to the best of my knowledge and belief.



Contracting Officer



Date