



NASA Satellite Space Flight Hardware Laser Link System

Item number: 7704126184

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Current bid: **US \$504.00**

Time left: **8 hours 37 mins**
 10-day listing, Ends Aug-12-05 09:30:00 PDT

Start time: Aug-02-05 09:30:00 PDT

History: [2 bids](#) (US \$499.00 starting bid)

High bidder: [amt_av_sales](#) ([153](#))

Item location: Centennial, CO 80112 United States

Ships to: United States

Shipping costs: Check item description and payment instructions or contact seller for details

[Shipping, payment details and return policy](#)

Seller information

[rdr-electronics](#) ([6690](#))

Feedback Score: 6690
Positive Feedback: 100%
 Member since May-28-99 in United States

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Description [\(revised\)](#)

eBuy User ID:
rdr-electronics
 Aug. 11, 2005
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Auction consisting of:

Lot of satellite hardware (as pictured below)

Only what is listed above and/or shown in the pictures below are included in this auction.

This auction is for a lot of actual satellite flight hardware. We know that this item was surplus from Ball Aerospace in Boulder Colorado, many of the individual pieces were manufactured by McDonnell-Douglas in St. Louis, MO. We believe that this is a Laser Crosslink System (LCS) used on a military satellite program. For more information you might check out this link to the [Ball Aerospace Laser Crosslink System](#) website. WE CANNOT ANSWER ANY FURTHER QUESTIONS REGARDING THIS HARDWARE BEYOND WHAT IS DESCRIBED IN THE AUCTION DESCRIPTION AND PICTURES, WE JUST DONT KNOW ANY MORE ABOUT THIS UNIT.

The flight structure is mounted in a large aluminum carrier frame. The spacecraft structure is a carbon fiber frame that has the various electronic modules, optical table, and wiring harness mounted to it. The spacecraft portion has a three point mount to the aluminum carrier. The mechanical frame on this unit is SN001 (see photo), unfortunately one of the tripod sets for the telescope optics is broken (thus the roll of tape in the pictures holding it in position). It could easily be glued back in place if desired.

We actually had two of these units and dismantled one for our curiosity. The pictures of the dismantled units are from the first unit. THESE PIECES WILL ALSO BE INCLUDED IN THE LOT.

Among the goodies pictured are a Power Control Unit, this is the box in the middle of the top row of three boxes in several of the pictures. There are MANY hard to remove screws to get the thing apart, but the insides are very impressive. The cards that are fanned in the pictures slip down into the outer box.

There is an optical deck (on the bottom, under a multi-layer insulation cover) that has several components. Two boxes are wide-field detectors (main and redundant), these are the pictures that have the eight ports in a circle. There are also send path optics (the smaller piece with the galvos) and the main receive optics (the large optical conglomeration). There are really a lot of neat pieces in the optical section, lots of galvanometers, two position mirrors to switch to redundant paths, lenses, and who knows what. There are virtually no manufacturer names to identify any of this hardware. The part numbers are most likely unique to McDonnell-Douglas.

This lot was definitely flight hardware, however, it has seen some wear and tear. This unit and other included hardware are being sold for their 'coolness' factor. If you can figure out how to actually use any of this material - great. The actual original cost of these items is anyone's guess, clearly - millions of your taxpayer's dollars probably went into the design, engineering, and fabrication of this VERY UNIQUE item. The actual flight hardware mounted in the frame weighs around 250 pounds, the aluminum frame weighs about 175 pounds.

Warranty: Sold strictly as-is.

Actual dimensions for padded van (unpalletized) are 620 Lbs. 48" wide 48" deep and 72" tall.

Estimated palletized freight info for this item is 620 Lbs. 48" long X 48" wide X 72" high. There is a \$50.00 palletization fee if this item is shipped standard, common carrier, OTR, freight. This equipment will be shipped FREIGHT or PADDED VAN only, or is available for local Denver, CO pick up. **WE cannot quote you a freight rate for this item, YOU must contact the shipper of your choice to make transportation arrangements for this item. Estimated weight and dimensions are above, a freight arranger that we use often is referenced below if you would like to call them for an estimate.**

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