

| WBS No | Description | Qty | Production Cost Total | Fixed Cost (NRE) Total | WBS Item Totals Total | WBS No | Notes | 1997 Production cost Total | 2000-1997 WBS | by Inst |
|--------------------|---|--------|-----------------------|------------------------|-----------------------|--------------------|---|----------------------------|-------------------|---------|
| 1.5.9 | MDT Electronics | | \$3,217,039 | \$466,080 | \$3,683,119 | 1.5.9 | | \$3,746,075 | -\$62,956 | |
| 1.5.9.1 | Mezzanine card | | \$2,697,370 | \$374,680 | \$3,072,050 | 1.5.9.1 | | \$3,196,311 | -\$124,261 | |
| 1.5.9.1.1 | MDT-ASD | | \$778,504 | \$209,200 | \$987,704 | 1.5.9.1.1 | | \$1,857,328 | -\$869,624 | |
| 1.5.9.1.1.1 | Design | | | \$165,200 | \$165,200 | 1.5.9.1.1.1 | See support sheet | \$349,200 | | |
| 1.5.9.1.1.2 | Prototype | 1 | | \$44,000 | \$44,000 | 1.5.9.1.1.2 | See support sheet | \$60,000 | | |
| 1.5.9.1.1.3 | Production | | \$778,504 | | \$778,504 | 1.5.9.1.1.3 | | \$1,448,128 | -\$669,624 | |
| 1.5.9.1.1.3.1 | Wafer fabrication | 65,824 | | \$630,009 | \$630,009 | 1.5.9.1.1.3.1 | Mosis quote | \$1,448,128 | | |
| 1.5.9.1.1.3.2 | Packaging | 65,824 | | \$112,498 | \$112,498 | 1.5.9.1.1.3.2 | ASAT quote | | | |
| 1.5.9.1.1.3.3 | Test | 82,280 | | \$35,998 | \$35,998 | 1.5.9.1.1.3.3 | Based on ASD-lite testing 5k piece | | | |
| 1.5.9.1.1.4 | ASD-lite | | | | | 1.5.9.1.1.4 | Completed | | | |
| 1.5.9.1.1.4.1 | Design | | | | | 1.5.9.1.1.4.1 | | | | |
| 1.5.9.1.1.4.2 | Prototype | | | | | 1.5.9.1.1.4.2 | | | | |
| 1.5.9.1.1.4.3 | Production | | | | | 1.5.9.1.1.4.3 | | | | |
| 1.5.9.1.2 | Mezzanine card printed circuit board | | \$1,918,865 | \$73,200 | \$1,992,065 | 1.5.9.1.2 | | \$1,338,983 | \$653,083 | |
| 1.5.9.1.2.1 | Design | | | \$67,200 | \$67,200 | 1.5.9.1.2.1 | See support sheet | \$100,800 | | |
| 1.5.9.1.2.2 | Prototype | 1 | | \$6,000 | \$6,000 | 1.5.9.1.2.2 | See support sheet | \$35,000 | | |
| 1.5.9.1.2.3 | Production | | \$1,858,865 | | \$1,858,865 | 1.5.9.1.2.3 | | \$1,203,183 | \$655,683 | |
| 1.5.9.1.2.3.1 | PCB fabrication | 15,479 | | \$1,813,718 | \$1,813,718 | 1.5.9.1.2.3.1 | Average of quotes | \$1,118,048 | | |
| 1.5.9.1.2.3.2 | Assembly | | | | | 1.5.9.1.2.3.2 | (included in quotes) | | | |
| 1.5.9.1.2.3.3 | Test | 15,479 | | \$45,147 | \$45,147 | 1.5.9.1.2.3.3 | | \$85,135 | | |
| 1.5.9.1.2.4 | Mezzanine lite pcb | | \$60,000 | | \$60,000 | 1.5.9.1.2.4 | | | \$60,000 | |
| 1.5.9.1.2.4.1 | Design | | | | | 1.5.9.1.2.4.1 | | | | |
| 1.5.9.1.2.4.2 | Prototype | | | | | 1.5.9.1.2.4.2 | | | | |
| 1.5.9.1.2.4.3 | Production | 400 | | \$60,000 | \$60,000 | 1.5.9.1.2.4.3 | Estimate based on production Mezz. Cost | | | |
| 1.5.9.1.3 | Mezzanine card/MDT-ASD test stand | | | \$92,280 | \$92,280 | 1.5.9.1.3 | | | | |
| 1.5.9.1.3.1 | Design | | | \$55,200 | \$55,200 | 1.5.9.1.3.1 | | | | |
| 1.5.9.1.3.2 | Prototype | | | | | 1.5.9.1.3.2 | | | | |
| 1.5.9.1.3.3 | Fabrication | | | \$37,080 | \$37,080 | 1.5.9.1.3.3 | | | | |
| 1.5.9.2 | Hedgehog cards | | \$459,101 | \$72,800 | \$531,901 | 1.5.9.2 | | \$433,400 | \$98,501 | |
| 1.5.9.2.1 | Signal Hedgehog | | \$459,101 | | \$459,101 | 1.5.9.2.1 | | \$409,400 | \$49,701 | |
| 1.5.9.2.1.1 | Design | | | | | 1.5.9.2.1.1 | | \$34,000 | | |
| 1.5.9.2.1.2 | Prototype | 1 | | | | 1.5.9.2.1.2 | | \$85,000 | | |
| 1.5.9.2.1.3 | Production | | \$459,101 | | \$459,101 | 1.5.9.2.1.3 | | \$290,400 | \$168,701 | |
| 1.5.9.2.1.3.1 | PCB fabrication | 4,400 | | \$454,288 | \$454,288 | 1.5.9.2.1.3.1 | Average of quotes | \$266,200 | | |
| 1.5.9.2.1.3.2 | Assembly | | | | | 1.5.9.2.1.3.2 | (included in quotes) | | | |
| 1.5.9.2.1.3.3 | Test | 4,400 | | \$4,813 | \$4,813 | 1.5.9.2.1.3.3 | | \$24,200 | | |
| 1.5.9.2.2 | HV Hedgehog (Not US responsibility) | | | | | 1.5.9.2.2 | | \$24,000 | | |
| 1.5.9.2.3 | Hedgehog card test stand | | | \$72,800 | \$72,800 | 1.5.9.2.3 | | | \$72,800 | |
| 1.5.9.2.3.1 | Design | | | \$32,400 | \$32,400 | 1.5.9.2.3.1 | | | | |
| 1.5.9.2.3.2 | Prototype | | | | | 1.5.9.2.3.2 | | | | |
| 1.5.9.2.3.3 | Fabrication | | | \$40,400 | \$40,400 | 1.5.9.2.3.3 | | | | |
| 1.5.9.3 | Patch panels | | \$60,568 | \$18,600 | \$79,168 | 1.5.9.3 | | \$116,364 | -\$37,196 | |
| 1.5.9.3.1 | Signal Patch Panel | | \$60,568 | | \$79,168 | 1.5.9.3.1 | | \$115,404 | -\$36,236 | |
| 1.5.9.3.1.1 | Design | | | \$13,600 | \$13,600 | 1.5.9.3.1.1 | | \$15,000 | | |
| 1.5.9.3.1.2 | Prototype | 1 | | \$5,000 | \$5,000 | 1.5.9.3.1.2 | | \$4,500 | | |
| 1.5.9.3.1.3 | Production | | \$60,568 | | \$60,568 | 1.5.9.3.1.3 | | \$95,904 | -\$35,336 | |
| 1.5.9.3.1.3.1 | Fabrication | 640 | | \$57,768 | \$57,768 | 1.5.9.3.1.3.1 | Number of superlayers US is responsible for | \$92,384 | | |
| 1.5.9.3.1.3.2 | Assembly | | | | | 1.5.9.3.1.3.2 | | | | |
| 1.5.9.3.1.3.3 | Test | 640 | | \$2,800 | \$2,800 | 1.5.9.3.1.3.3 | | \$3,520 | | |
| 1.5.9.3.2 | HV Patch Panel (Not US responsibility) | | | | | 1.5.9.3.2 | | \$960 | | |