

ALMA correlator development work 2000 and 2001

card prototypes (including re-work);

	card	parts	assembly		
station card (quan. 2)	\$3,500	\$3,000	\$2,000		
filter card	\$3,500	\$2,500	\$1,000		
control card	\$3,000	\$2,000	\$1,000		
LTA card	\$6,000	\$3,000	\$2,500		
adder card	\$5,000	\$1,500	\$1,500		
interface card	\$4,000	\$1,500	\$1,000		
correlator card	\$6,000	\$1,000*	\$2,500		

	\$31,000	\$14,500	\$11,500	-->	\$57,000

correlator chip (400 chips) \$224,000 --> \$224,000

test fixtures;

station card	\$1,000				
test card	\$4,000				
filter card	\$1,500				
LTA card	\$2,500				
test card	\$5,000				
correlator test bed	\$6,000				
station backplane	\$3,000				
correlator backplane	\$3,000				
signal paddle boards	\$1,000				

	\$27,000			-->	\$27,000

test equipment;

oscilloscope	\$20,000				
logic analyzer	\$10,000				
lab PC	\$2,000				
solder station	\$5,000				
microscope	\$5,000				

	\$42,000			-->	\$42,000

software support

Orcad capture (3)	\$800				
Orcad layout (1)	\$2,000				
Xilinx (1)	\$1,500				
Auto cad (1)	\$500 (guess)				

	\$5,000			-->	\$5,000

total \$355,000

* without correlator chips