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EQUIPMENT LIST

<u>ADMINISTRATIVE / ENGINEERING</u>	<u>QUALITY CONTROL AND CHEMICAL LAB</u>
<p>IGI ParCAM CAD/CAM software Lavenir and ECAM CAD Software Software Netlist Extraction Software verification FRS 2000 5 Computers PIII 600+ 5 Computers PII CAD Technilith Dry Film Developer 8 ea. Light tables Douthitt Magic 781 Exposure Unit Prism workstation Gerber Systems Crescent 30 photoplotter with Agfa Rapoline 66 silver film processor</p> <p><u>MECHANICAL PROCESSING</u></p> <p>Driller - Excellon MKVII 5HD w / CNC7 controller 2 Drillers – Excellon Mark V 1-5 HD , 1-4 HD w / CNC6 controllers Driller Router - Excellon Mark V 4HD w / CNC6 controller Driller – Excellon MKVI w/CNC6 controller Bevelmate - Model 035 Barnaby Pinner - Model 802 Shear Pneumatic Tennsmith Model A5216 Spencer Vacuum and dust collection system Vacuum Milwaukee Model 8955 Drill Press Hanson Floor Model Compressor 120psi 40 HP Ingersoll Rand 3 ea. Receivers Air 500gal Forklift Truck TCM 5000lb</p> <p><u>CHEMICAL PROCESSING / METALLIZATION</u></p> <p>DPS Metallization with integrated desmear process and dryer Electroless Copper Immersion Tin Process Immersion Silver Process OSP Finish Process Electroless Nickel Immersion Gold Process White Immersion Tin Final Finish Line</p> <p><u>PHOTORESIST PROCESSING</u></p> <p>VCM vertical photoresist Developer Eidschun/ASI Ninety25 series Developer 3 ea. Dupont HRL Film Laminators Colight DMVL 1530 5KW Exposure Unit ORC Optibeam 1000S Exposure Unit 7.5KW</p>	<p>Instrumentation Labs-Atomic Absorption Spectrophotometer Grinder Polisher Ecomet III Rectifier Kokour 5 AMP Fume Hood LabConco Oven Fisher Isotemp Nikon Epiphot Microscope w / Color Monitor and Polaroid Microscope - Unitron Neomet w / Polaroid pH Meters – Denver Instruments, Hach Microscopes - Unitron Neomet, Nikon Scales - Fisher Scientific XL3000, Mettler CMI PTX 100 Copper thickness gauge with DPU 11 printer CMI Betamin 1700 copper thickness gauge Circuitline Precise 30 K Fixture bare board tester Mania Technology Micro 200 Fixture Bare Board Tester RTX-113 Real-Time X-Ray Inspection System Ionic Contamination Testing/Omega Meter Microscopes Stereo Zoom Unitron, B&L</p> <p><u>ELECTROPLATING/TAB PLATING</u></p> <p>3 ea. Copper Electroplating tanks 600 gal bussed Tin Electroplate Tank 600gal Bussed 3 ea. Rectifier 1000 AMP Rectifier RO Hull 5 AMP Filter system Flo-King 2 Rectifier Rapid 50 AMP Rectifier RO Hull 5 AMP Nickel/Gold Tab Plate Line Tape Press Heated</p> <p><u>STRIP AND ETCH</u></p> <p>Chemcut Etcher ASI Etcher 24" wide conveyor w/3 rinses FSL Conveyorized Photoresist Strip Line Eidschun Tin Strip line</p> <p><u>SOLDERMASK</u></p> <p>Cugher Semiautomatic screening machine Cugher conveyerized curing oven 3 ea. Mask Curing Ovens 36x39x47 Nuarc Plate Maker Screen Washout Booth Ishihioki Al₂O₃ Copper Scrubbing Machine Wesero EC600 Scrub/Deburr system 2 ea Scrubbers Chemcut Model 107</p> <p><u>SMOBC PROCESSING</u></p> <p>ENIG, OSP, Silver Final Finish Line HAL Lantronic Model TT-30 Fluxer Table Top ACS CMI900 XRF Coating Thickness Measurement System</p> <p><u>ENVIRONMENTAL COMPLIANCE</u></p> <p>Trionetics Waste Treatment System w/Metals Recovery</p>

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