Capabilities

CHELTON
Defence Communications

Design and Development

Hardware/Software Design Tools

- ► ORCAD schematic capture and PCB layout
- ► VHDL design tools
- ► Assembler, C and RTOS development platforms

- ► Design Software Linked with the SAP System for configuration control and business management
- ► All process data outputted electronically to production

- ► Unigraphics 3D mechanical modelling and engineering drawings
- ► Database of standard parts used to minimise component count in inventory

Design Support

- ► DOORS Requirement Mg't
- ► RELEX reliability prediction
- ► Development laboratory

Environmental

- ► Hot & Cold chamber
- ► Humidity chamber
- ► Bump facility

Productionisation

- ► Build to print with or without production enhancements
- ► Electronic and mechanical design services

Manufacturing

Automated Surface Mount Circuit Board Assembly

- ► Capable of placing 0402 and 0.26mm & 0.4mm pitch FPGA's
- ► High speed chip and integrated circuit placement Small or high batch capability
- ► Fully automated in-line screen printing facilities
- ► Glue dot facility for faster turn round of development ccts

Through-Hole Circuit Board Assembly

- ► Semi-automated Traditional leaded component assembly through Contax machines
- ► Wave soldering machine with nitrogen facilities (to prevent defects.)
- ► On HCFC fully immersed Cleaning process

Circuit Board Testing

- ► In-house ability to develop testing solutions to your requirements.
- ► Full in circuit automated test equipment
- ► Manual or fully automated test to meet product needs

Cable Form and Looming

- ► Automatic and semi-automatic stripping and cutting
- ► Solder and crimp termination of all types of insulation

Product Assembly

- ► Flexible cell based manufacture
- ► Low or high volumes
- ► Prototyping facilities
- ► Purpose built semi-automated Kanban fed final assembly

Product Testing

- ► Monitored burn-in
- ► Thermal cycling, mechanical shock, pressure seal and vibration
- ► Dedicated or general purpose automated test equipment

BUSINESS SUPPORT

Quality

- ► Process Based BMS
- ► Independent Audit of the full Business via an audit plan
- ►

Purchasing

- ► Volume Procurement used to obtain competitive pricing.
- ► Preferred suppliers utilised to guarantee delivery and quality.

Manufacture Engineering

- ► Production Documentation created to aid the control of specific quality requirements

Health & Safety

- ► Works health & Safety Committee
- ► On site Occupational Health

Marketing

- ► Partnerships established and required for overseas opportunities

Planning

- ► Manufacture Resource Planned implemented using SAP R3 planning tool
- ► T&T include life cycle management