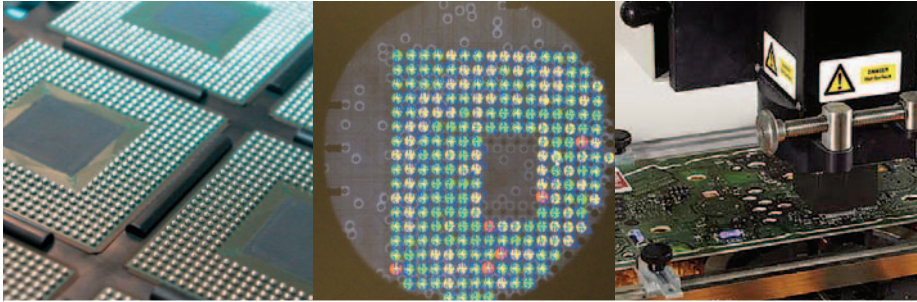
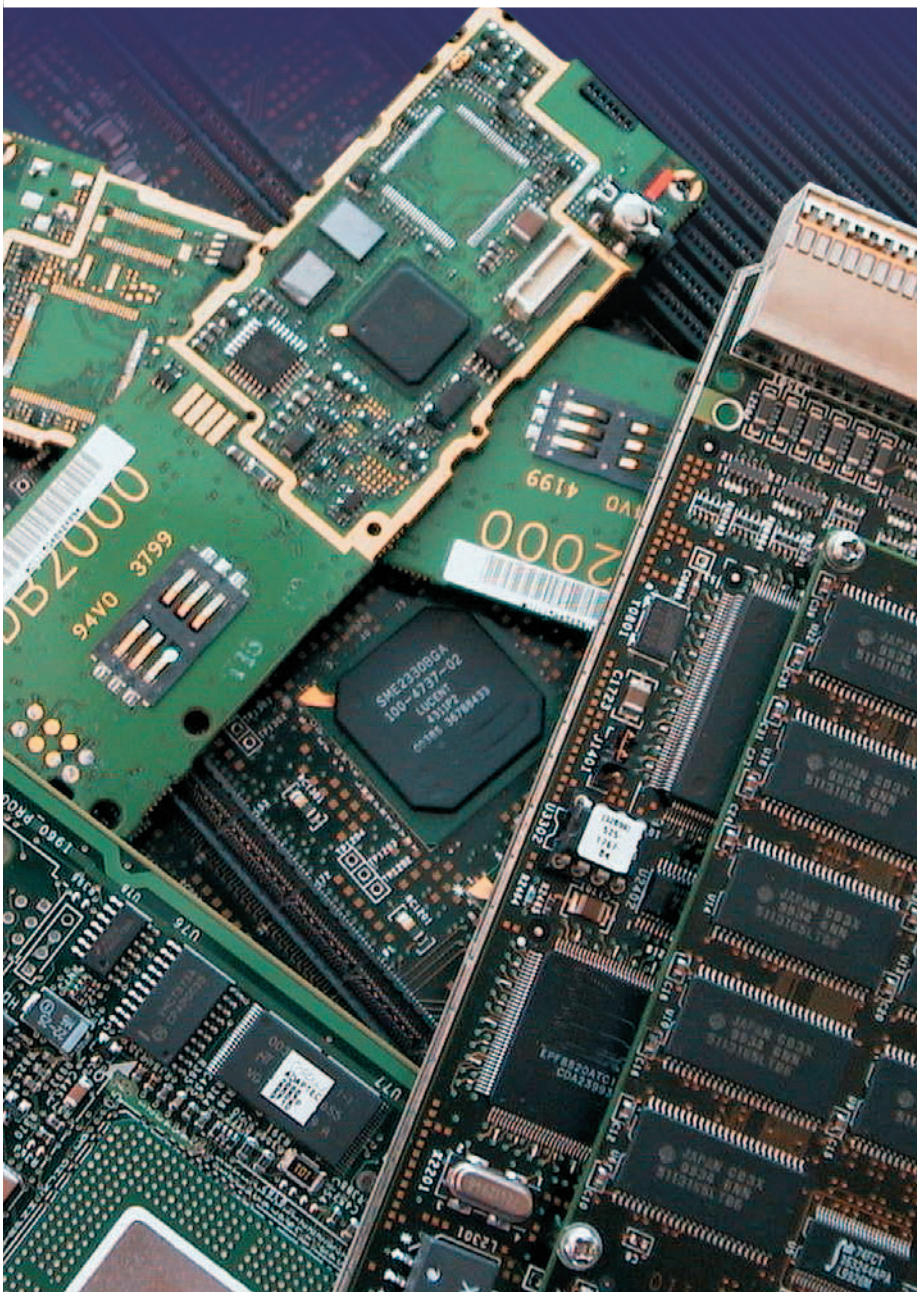


# AS9100 Certified PCB Rework & Repair



MANUFACTURED  
PRODUCTS &  
SERVICES



PROVIDING A FLEXIBLE BOARD  
REWORKING SERVICE FOR  
COMPONENT REMOVAL AND  
REPLACEMENT PLUS SPECIAL  
PAD AND TRACK REPAIR.  
EQUIPMENT CAPABILITY  
INCLUDES...

- FULLY AUTOMATED BGA AND QFN REMOVAL AND REPLACEMENT.
- X-RAY INSPECTION OF COMPONENTS INCLUDING SOFT COPY PICTURES.
- ALL REPAIRS ARE COMPLETED IN LINE WITH IPC WORKMANSHIP STANDARDS.
- COMPONENT UNDERFILL REWORK SPECIALIST.
- IONIC CONTAMINATION TESTING AVAILABLE ENSURING OUTGOING PCB CLEANLINESS TO DEF AND MOD STANDARDS.





# AS9100 Certified PCB Rework & Repair

## TECHNICAL DETAIL

Our vision is to automate processes wherever possible, this strategy enables a high level of consistency and repeatability on all processes.

## ENVIRONMENT

Quality System operating within ISO 9001:2000 incorporating AS9100 (Aerospace). Full ESD environment CEI IEC 61340-5-1. Humidity and Temperature monitoring.

## PCB REWORK AND REPAIR

IPC-A-610D.

IPC-7711/IPC-7721.

Focused Infrared. Computer based vision system. Closed loop thermal profiling.

## BAKING CONSIDERATIONS

All products requiring baking are baked in line with JSTD-033B. Alternative is to bake at 40°C with less than 5% relative humidity for 192 hours.

## DRY PACKING

All packaging in line JSTD-033B. 3 layer moisture barrier bag used. Humidity indicator card 4 Spot. Desiccant included in all MSL dry packing. Customised labelling available.

## LABELLING

Both polyester and Kapton labelling is an option.

## QUALITY

Micross components is an AS9100 approved manufacturing and test facility. Operating with industry standards used in Military, Space, Medical and Industrial markets.

## DELIVERY

Several customer information/delivery systems in place including KANBAN. Direct input to customer information/tracking systems, secure online information access.

## KEY SERVICES

- BGA removal and replacement
- BGA re-balling as part of repair
- SMT Component removal and replacement
- Pad and Track repair
- Solder on Gold repair
- Ionic Testing
- Component Harvesting. (Selective component removal and conditioning)
- Scrap PCB disposal and Precious Metal Recovery
- Underfill components removed and PCB Salvaged
- X-ray inspection available
- Conformal coating removal and replacement available

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Fax: +44 (0)1420 891 51

OUR MANUFACTURED PRODUCTS & SERVICES DIVISION OFFERS A WEALTH OF EXPERTISE IN DESIGN, PROCESSING AND PRODUCTION OF SEMICONDUCTORS, CONNECTORS AND OTHER ELECTRO-MECHANICAL COMPONENTS WITH THE HIGHEST DEGREE OF QUALITY, HI-RELIABILITY AND PERFORMANCE.



For further information visit [www.micross.com](http://www.micross.com)