



RETRONIX
CONSISTENCY | INNOVATION | QUALITY | PRECISION

PCB Services : Repair, Rework, Inspection

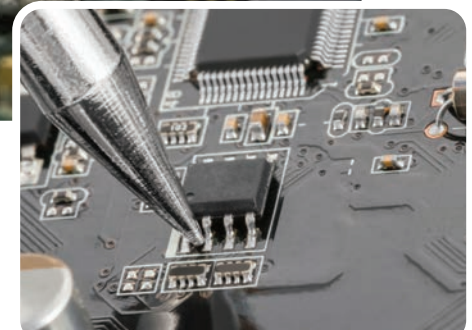
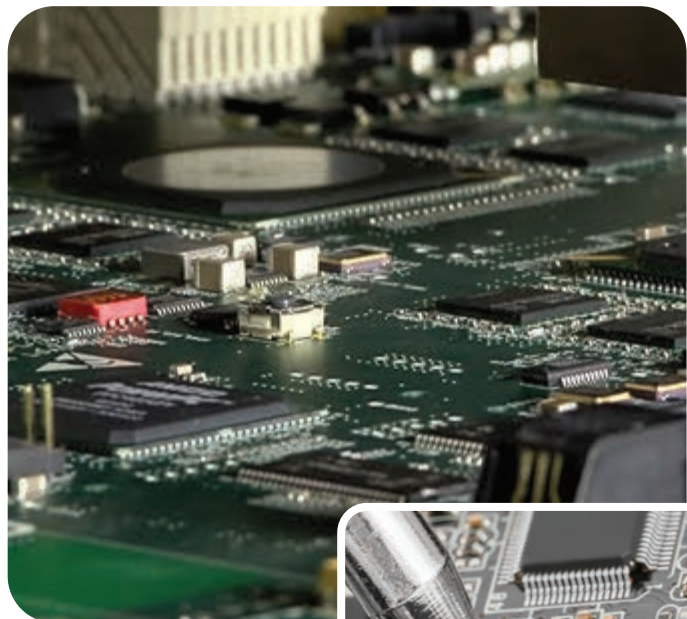
Retronix offers a suite of PCB repair & rework services that is fully controlled and ESD compliant. Our facilities are ISO 9001:2008 accredited and we use the latest software controlled circuit board repair stations and work to recognised IPC and JEDEC workmanship standards to ensure accurate profile settings for the most complex reworks.

Key Features

- Pad & Track Repair / Laminate Repair
- Rework / Engineering Change Notices
- Component Level Debug
- Inspection / Verification
- PCB Debug
- Changing a PTH device using an individual desoldering tool or miniwave

Applications Include

- An alternative to costly investment in rework equipment and a 'turn on turn off' solution to your PCB requirements.
- Skilled workforce trained and continually assessed by our own on-site trainers.
- Offer troubleshooting teams of debug technicians/repairers who can go into a customer's facility and work on their bone pile of PCB's



I-TRONIK S.R.L. - Macchine e prodotti per l'industria elettronica
Via dell'Artigianato, 20 - 35010 - Peraga di Vigonza (PD)
Tel. +39.049.895.2300 - Fax +39.049.893.4822 - P.IVA 01443020282
commerciale@itronik.it _ www.itronik.it



Management
System
ISO 9001:2008
www.tuv.com
ID 9105077228



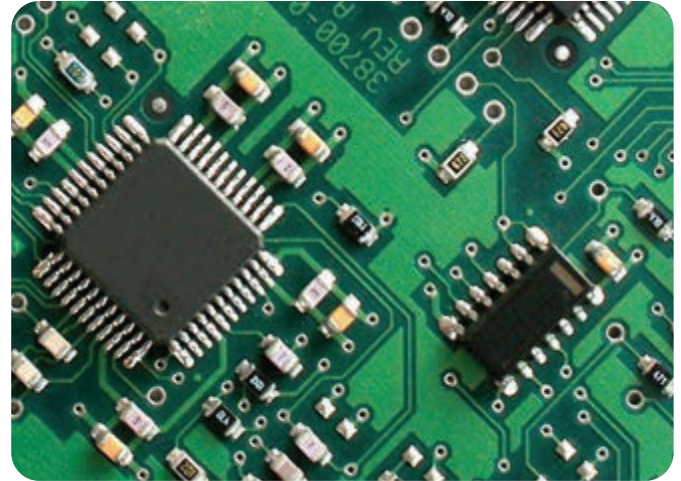


RETRONIX
CONSISTENCY | INNOVATION | QUALITY | PRECISION

Causes of Failure

- The raw PCB could be faulty
- There could be a paste problem, causing a short to open.
- Each time an IC is removed and replaced by a new one.

The failed PCB generally goes into a debug area where the fault is diagnosed, repaired, and the PCB is re-tested, if it passes, it ships; if it fails, it goes back around the debug loop. After three attempts the PCB is often classed as unreliable and scrapped.



PCB Repair Solutions

As product life cycle becomes shorter, the debug techs are given less time to learn a new product, so often they wrongly diagnose the fault, leading to an increase of 'end of line' failures.

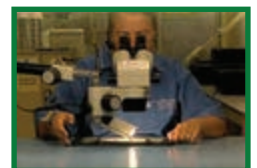
As part of the PCB service, if the IC's are recovered using our IC recovery service that also includes electrical & mechanical test for further authenticity - these IC's can then be :

- Put onto a new assembly
- Used in a debug area to repair a failed assembly
- Used in a field return repair in the future
- Sold in the marketplace as 'zero hours' good IC's



IC Tests

Retronix offer a variety of component tests to authenticate and verify the IC's -
Visual Inspection | Key Functional Test
XRF Test | Solderability Test | X-Ray Inspection
Memory Programming | Electrical Test
Decapsulation Test | Ionic Contamination Test
Extreme Temperature Test



Management
System
ISO 9001:2008
www.tuv.com
ID 9106077228

