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extended boundary scan mixed signal test solution

maximising delivery quality

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A sophisticated test strategy via Design for Testing maximises the delivery quality: minimal slip through or Zero Hour Defect Rate.
One of the most effective and efficient test solutions is the extended boundary scan.

shorter throughput time, considerable savings

Thanks to the combination of structural and functional tests, clients no longer have to use their own costly and time-consuming functional tests at a later stage where the correction of any anomalies has much greater consequences. The extended boundary scan test solution therefore provides clients with greater time savings and significantly reduced costs.

best delivery quality

This test solution, developed by tbp, detects anomalies on a pcba in a fully automated way. The mixed signal functionality tests both analogue and digital components in their operation. This multiple application results in the highest possible test coverage.
Any anomalies will be detected and corrected immediately, also fully automated, in order to fully meet the client's requirements.

more automated tasks in only one process step

- controlled switching on and off of the supply voltage
- testing analogue and digital components
- testing of bus interfaces (including I^2C, SPI, CAN)
- testing of RAM memory (including DDR1 and DDR2)
- programming components (including EEPROM, FPGA, microcontroller and flash)
- calibrating components
- testing and analysis of analogue signals (including sinus and square wave)
- option to load the pcba electronically
- automatic testing of LEDs (colour, intensity and blink frequency)
- coverage of all functional test requirements as specified by the designer
- configurable functions of test software

the result: the best delivery quality of as many as 200 parts per million