# BP-4100

- Programs and marks in a single operation
- Programs flash memories, FPGAs, CPLDs, and microcontrollers
- Handles PSOP, TSOP, SSOP, PLCC, SOIC, and fine pitch QFP to 208 pins
- Vision centering
- Variety of input/output with tube, trays, or tape
- Software setup reduces changeover time



The BP-4100 Automated Programming System meets the rigorous demands of real-world programming centers with state-of-the-art performance and field-proven technology. The BP-4100 is the first automated programming system capable of programming fine pitch (20 mil or 0.5 mm) QFP and TSOP surface-mount programmable integrated circuits including flash memories, antifuse FPGAs, CPLDs, and microcontrollers. The BP-4100's throughput, accuracy, and flexibility make the system more economical to operate than either conventional autohandlers or manual gang programmers.

The system has eleven high speed universal programmers that operate independently and concurrently, allowing the system to simultaneously program eleven devices, whether they are flash memories or FPGAs. Component leads are touched only once by the system with the programmer pin contactor. This reduces any possibility of damage during the centering and marking operations, and increases the outgoing quality level of your programmed Intel devices.

The BP-4100's remarkable pick-and-place system moves the integrated circuits and places them into the programming sockets with 0.001" (0.025mm) accuracy in less than one second. Components are centered using a patented laser illuminated camera mounted to the pick-and-place

head to guarantee each part is placed exactly in the socket without bending its leads.  The system incorporates a laser marking system to help reduce component handling to a minimum. The vision centering and closed-loop positioning systems of the BP-4100 deliver the accuracy essential to achieve good programming and handling yield of your Intel devices. BP Microsystems stands behind every BP-4100 with unparalleled support.

**INTEL FLASH MEMORY SUPPORTED:**

28F010, 28F001BX, 28F020, 28F002BC, 28F002BL, 28F002BV, 28F002BX, 28F200BL, 28F200BV, 28F200BX, 28F200CV, 28F004BE, 28F004BL, 28F004BV, 28F004BX, 28F004SC, 28F400BL, 28F400BV, 28F400BX, 28F400CE, 28F400CV, 28F008BE, 28F008BV, 28F008SA, 28F008SC, 28F800BV, 28F800CE, 28F800CV, 28F016SA, 28F016SC, 28F016SV, 28F016XD, 28F016XS, 28F032SA

**AVAILABILITY:**

Now

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**BP** **MICROSYSTEMS**