



Programming the Future



Make Device Programming Easy

Saving time in set-ups without requiring advanced technicians



Get the Lowest Cost per Device

Bring programming in-house and turn your operation from a cost center to a profit center



9[™] Generation **Site Technology**

Future-proof investment with true universal site technology



CyberOptics®

On-the-fly vision alignment-fast, precise and efficient in a production environment



WhisperTeach™

Automatic Z-Teach—reduces setup time per job and improves accuracy and quality



Award-Winning Software

Devices per Hour



WhisperTeach™ provides automated Z-height detection. critical for each pick/place location. Setup is fast and accurate, reducing teach time as much as 83%



9TH Gen site technology offers the broadest support in the industry at unsurpassed programming speeds. We support more devices on a single site platform than any other



Award-Winning Service



CyberOptics® Vision with component auto-measure— for fast set-up, true CSP support, and on-the-fly alignment for maximum quality and productivity



Seven 9[™] Gen sites with Vector Engine and BitBlast provides full



universal support at incredible speeds for up to 28 sockets

Programming Hardware

Optional Automated Peripherals to maximize/customize your 3928

- Laser Marker
- Tray Stacker
- Tape Input/Output
- Tube Input/Output
 - Tray Shuttle

Architecture: 9[™] Gen Concurrent Programming System with Vector

Diagnostics: RAM, communications, calibration, timing, LEDs, fans,

Engine Co-Processor

Calibration: Annual, may be performed on site

Programming Sites: 2 to 7 sites, 1 to 4 sockets per site, 28 sockets max

Memory: 256GB per site, upgradeable to 512GB

Pick & Place System

Handler Throughput: Up to 1,450 Devices per Hour (with vision centering) **Component Handling Range:** 0402 to 240-pin QFP (0.4 x 0.2mm to 32 x 32mm) Machine Dimensions: Length 127cm, width 61cm, height 137cm

Safety Standard: CE compliant

Power supplies, CPU, memory, X, Y, Z,theta motion

systems, nozzle run-out, and height

Positioning System

X-Y Drive System: High-performance stepper motor driven belt

X-Y Encoder Type: Linear optical scale

X-Y Axis Positioning Accuracy: ± 0.015mm

X-Y Axis Maximum Velocity: 150cm per second

Z Drive System: High-performance stepper motor driven lead screw Theta Drive System: Precision stepper motor-driven direct drive assembly

Theta Accuracy: 0.014°

Z-Axis Teach Accuracy with ± 0.015mm

WhisperTeach™

Software

Required: BPWin™

File Type:

Windows 10

Binary, Intel, Motorola, RAM, straight hex, hex-space, Tekhex, Extended Tekhex, ASCII, hex, OMF, LOF, MER

pinoe, power supplies, voltage/current/slew for vpp

dcard, Precision Measurement Unit (PMU) pin drivers

and vcc, high current vcc mode, digital pin drivers, and relays. Ground Transistors, digital driver path to programmer, dcard LEDs, customizable diagnostics per

and others

Device Processes:

ID check, blank check, continuity, auto start, compare, read, erase, program, verify, multi-pass verify, test, checksum, secure, device configure, auto-range, options

and more

Operating System: Windows 10, Windows 7, 64-bit

Network Interface: Gigabit Ethernet

Advanced Feature Software: Simple and complex serialization, Clob Monitor and

Clob Control (API)

Vision System

Alignment: CyberOptics® On-The-Fly

Downward Vision: CCD, GigE compliant

See the video at bpmmicro.com/3928-2



Peripheral Options

Tape Input/Output, Tray Stacker, Tray Shuttle, Tube **Peripherals:**

Input/Output, CO2 Laser Marker



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