**First Motion Controller GM1 launched by
Panasonic Industry**

With up to 32 axis synchronized torque control, the GM1 offers a compact solution for complex motion control applications

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Panasonic Industry presents the first motion controller in its comprehensive lineup: the GM1 combines features of motion functions with the functionality of a PLC like positioning, network modules, I/O modules, and high-frequency counter in one compact controller.

Since these modules are integrated into the GM1 motion controller, the space-saving “all-in-one” solution reduces the occupied space in the cabinet and allows for response times to be as low as 0.5ms.

The motion controller houses two independent ethernet ports, Ethernet/IP and Modbus-TCP, a SD memory slot for 32GB cards, a two-channel highspeed counter (4Mhz/8Mhz), and a four-channel PWM output (100kHz).

**Features**

Thanks to command cycles of only 0.5ms, the quick response capabilities of the GM1 are state-of-the-art and render the motion controller a perfect solution for demanding applications.

Compared to PLCs, the GM1 is specially made for motion applications like a rotary knife, flying shear, labelling, current control, palletizer, crank, cam motion, or print mark control.

Moreover, as a core feature, the GM1 comes with AFB (Application Function Blocks), which allow quick and easy setup for predefined functions and reduce programming time and subsequent costs.

The GM Programmer programming tool is based on Codesys IEC 61131-3 automation software and allows programming with PLCOpen Standard Functions and a G-Code Editor.

The GM1 also features an integrated axis configuration tool that allows quick and precise programming of up to 32 axes via PANATERM Lite for GM.

For the integration in an Industry 4.0 environment, the GM1 motion controller is equipped with OPC UA client and server functions.

**Applications**

The GM1 combines motion and drive controls in one space-saving unit. It is specially designed for motion control solutions, where high precision, like interpolation control and sensitive response requirements, are essential. These features achieve high-speed and high accuracy for applications like press-fitting, molding, printing, or packaging machines.

As known from Panasonic Industry, the GM1 is fully compatible with the comprehensive automation portfolio like controllers, motors, or the MINAS A6 and MINAS A6 Multi family.

Learn more about the Panasonic Industry GM1 [here](https://industry.panasonic.eu/products/automation-devices-solutions/industrial-motors/motion-controller) and find a short introduction video of the new motion controller [here.](https://www.youtube.com/watch?v=54iEwRGTEK0)

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The company’s portfolio covers key electronic components, devices and modules up to complete solutions and production equipment for manufacturing lines across a broad range of industries.

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