**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

Munich, May 2022

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)

###

**About the Panasonic Group**

A global leader in developing innovative technologies and solutions for wide-ranging applications in the consumer electronics, housing, automotive, industry, communications, and energy sectors worldwide, the Panasonic Group switched to an operating company system on April 1, 2022 with Panasonic Holdings Corporation serving as a holding company and eight companies positioned under its umbrella. Founded in 1918, the Group is committed to enhancing the well-being of people and society and conducts its businesses based on founding principles applied to generate new value and offer sustainable solutions for today’s world. The Group reported consolidated net sales of Euro 56.40 billion (7,388.8 billion yen) for the year ended March 31, 2022. Devoted to improving the well-being of people, the Panasonic Group is united in providing superior products and services to help you Live Your Best.   
To learn more about the Panasonic Group, please visit: <https://holdings.panasonic/global/>

**About Panasonic Industry Europe**

Panasonic Industry Europe GmbH is part of the global Panasonic Group and provides automotive and industrial products and services in Europe.

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.

More about Panasonic Industry Europe: <http://industry.panasonic.eu>