

# Accelovant Unveils MPX-EDGE: High-Performance Edge AI/MIMO Controller for Next-Gen Semiconductor Tools

Visit us at SEMI "Smarter Sensors, AI at the Edge in Semiconductor Manufacturing" and learn how it runs your proprietary models in real time at the tool edge

VANCOUVER, BRITISH COLUMBIA, CANADA, March 12, 2026

/EINPresswire.com/ -- Accelovant Technologies Corporation, a [leader in fiber optic sensing](#) and control solutions for semiconductor manufacturing and critical power, today announced MPX EDGE, a 100 kHz data acquisition, sub millisecond AI/MIMO controller designed to bring real time, model based control to the point-of-process as fabs push toward the 2 nm design node and beyond.



MPX-EDGE AI/MIMO Controller

“

MPX-EDGE gives fabs the fast, open edge controller they keep asking for: real-time AI control with headroom for their own models, built to drop into today's semiconductor tools.”

*Ondrej Mecl, Chief Solutions Officer*

MPX-EDGE gives equipment makers a 100kHz sampling rate combined with code-stack access to run their own IP protected AI models with sub millisecond control. AI models with sub millisecond control. The MPX -EDGE is modular, with plug-and-play isolated I/O channels to accommodate most sensor inputs, including native optical sensors for fiber -optic thermometry where Accelovant is already recognized as a price -performance leader. “

MPX EDGE is a natural extension of our mission: fast precise, reliable measurement that directly improves yield and cost for our customers,” said Ondrej Mecl, Chief Solutions Officer for Accelovant Technologies. “MPX-EDGE

activates the ultra-high-bandwidth, low-latency signal-processing architecture originally built into the MPX optical platform, unleashing its native AI/ML inference and closed-loop control

capability directly at the semiconductor tool edge.”

Accelovant will showcase MPX EDGE as a sponsoring company at [Smarter Sensors, Smarter Fabs: AI at the Edge in Semiconductor Manufacturing](#), a SEMI workshop taking place March 18–19, 2026 in Milpitas, California. Attendees will be able to see MPX EDGE, review performance data, and discuss integration paths for existing and future 2nm tools with Accelovant’s engineering team.

For more information about MPX EDGE and Accelovant’s portfolio of fiber optic thermometry solutions, please contact [solutions@accelovant.com](mailto:solutions@accelovant.com)

To learn more about fiber-optic sensing solutions from Accelovant, please visit [www.accelovant.com](http://www.accelovant.com).

#### [About Accelovant:](#)

Headquartered in North Vancouver, British Columbia, Accelovant a leader in the technology, design and manufacture of fiber-optic sensing and control solutions for semiconductor, industrial, critical power, and data center markets. With a vertically integrated approach that combines materials science mastery with deep domain expertise, Accelovant delivers measurement and control solutions that increase yields, decrease costs, and provides exceptional domain and product support. Details are available at [www.accelovant.com](http://www.accelovant.com).

Michael Goldstein

ACCELOVANT TECHNOLOGIES CORP

604-762-6822

[email us here](#)

Visit us on social media:

[LinkedIn](#)

---

This press release can be viewed online at: <https://www.einpresswire.com/article/898867820>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2026 Newsmatics Inc. All Right Reserved.