



EtherCAT

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Invitation EtherCAT Seminar Series Norway 2022



October 25, 2022 | Molde

October 26, 2022 | Ålesund

Organized by:



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www.ethercat.org/2022/norway

What is EtherCAT?

- EtherCAT (Ethernet for Control Automation Technology) is the fastest Industrial Ethernet solution that provides industry leading performance, flexibility and cost advantages

Who should attend?

- This half-day seminar specifically addresses students, device manufacturers, system integrators, automation professionals, product managers, as well as decisions makers to learn about EtherCAT and Industrial Ethernet, but also the latest trends like Industrie 4.0, IoT and EtherCAT G

Why attend?

- Learn about the benefits and the challenges of Industrial Ethernet
- Explore and understand EtherCAT technology
- Talk with EtherCAT experts face-to-face, and see how EtherCAT can accelerate your application
- Discover the future of EtherCAT through gigabit performance and the integration of several communication technologies
- Discover how EtherCAT could generate a performance and competitive advantage

About ETG

- EtherCAT Technology Group (ETG) - the world's largest Industrial Ethernet Fieldbus organization with over 6,800 member companies from 70 countries supporting EtherCAT technology

Contact

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Sponsor

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Timetable

- Registration on site: 8:30
- Start of seminar: 8:45
- End of seminar: 12:00

Speaker



Oliver Fels
Technology Marketing
EtherCAT Technology Group

Presentations will be held in English language.
Order and titles of presentations may vary.

Private sessions: Feel free to use the chance to meet the EtherCAT expert at a private meeting after the seminar (request via online registration form).

Locations



Tuesday, October 25
Molde Fjordhotell
Julsundvegen 6
6412 Molde



Wednesday, October 26
Thon Partner Hotel Baronen
Kanalveien 1
6010 Ålesund

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Agenda

- **EtherCAT technology highlights and benefits: From Ethernet to EtherCAT**
Removing the bottlenecks with EtherCAT: processing on the fly! A primer on EtherCAT, how it works, key functional principles, integrated safety and performance data compared to the competition.
- **Installation and diagnosis: How to build and maintain an EtherCAT network**
A overview of the outstanding diagnostic features of the EtherCAT master and slaves, and how they can be used in systems for maximizing uptime, minimizing downtime, and assisting with troubleshooting a network.
- **Get it done I: EtherCAT master implementation**
Learn how to start with an EtherCAT master. We will look at the requirements, specifications and a master stack.
- **Get it done II: EtherCAT slave implementation**
Learn how to start with an slave device. We will look at the requirements, conformity and certification. Have a head start knowing the right tools and documents, including a live demonstration.
- **EtherCAT and cybersecurity**
A view on the robustness of EtherCAT against cyber threats.
- **What's next? EtherCAT G + G10**
EtherCAT G offers the next performance level for high-performance machines and data-intensive applications. Parallel processing of segments enables significantly reduced propagation delay times with full EtherCAT compatibility and integration of 100 MBit/s EtherCAT devices.
- **EtherCAT applications**
See various examples of successful EtherCAT applications, like in robotics, marine, or oil & gas industry.
- **Beckhoff demo**
See how easy it is to set-up the various EtherCAT features: Automatic addressing, precise synchronization via distributed clocks, hot connect groups, and cable redundancy will be just one of them.



www.ethercat.org

The EtherCAT Technology Group keeps EtherCAT technology open for all potential users. It brings EtherCAT device manufacturers, technology providers, and users together to further the technology. It provides multiple Technical Working Groups where experts carefully work on various specific aspects of EtherCAT. All of these activities are focused on one common goal: keeping EtherCAT stable and interoperable.

BECKHOFF

www.beckhoff.no

Beckhoff implements open automation systems based on PC Control technology. The product range covers Industrial PCs, I/O and Fieldbus Components, Drive Technology and automation software. Products that can be used as separate components or integrated into a complete and seamless control system are available for all industries. The Beckhoff "New Automation Technology" philosophy represents universal and open control and automation solutions that are used worldwide in a wide variety of different applications, ranging from CNC-controlled machine tools to intelligent building automation.

