SEMINAR INVITATION

on 29.04.2026 in Trondheim

Partner:

WÜRTH ELEKTRONIK MORE THAN YOU EXPECT

INVITATION TO THE FREE POWER DESIGN SEMINAR ON 29.04.2026 IN TRONDHEIM

Würth Elektronik Norway, in partnership with Monolithic Power Systems Inc., invites you to a free full day of in-depth technical presentations on 29.04.2026 in Trondheim, Norway.

Field Application Engineers from Würth Elektronik and Monolithic Power Systems Inc. will deliver technically focused sessions covering key aspects of modern power electronics design.

The presentations are aimed at providing practical design insights, design trade-offs, and best practices applicable to real-world power supply and system-level challenges.

Main topics:

- Power Supply design fundamentals and component selection - Monolithic Power Systems, Inc.
- Inductors + Capacitor selection - Würth Elektronik
- Power Supply design from an EMC perspective - Monolithic Power Systems, Inc.
- Boost Converter Demo from an EMC-perspective - Würth Elektronik

Seminar location:
Scandic Nidelven
Havnegata 1-3
7010 Trondheim
Norway

Wednesday, on 29.04.2026 from 08:30 to 16:00 o'clock

Please register by 13.04.2026 as the number of participants is limited. You can find the registration here: www.we-online.com/seminar-registration

We would be pleased to welcome you to our seminar.

With kind regards
Würth Elektronik & Monolithic Power Systems Inc

AGENDA FOR THE FREE POWER DESIGN SEMINAR ON 29.04.2026 IN TRONDHEIM

08:30 - 09:00	Registration
09:00 - 09:10	Intro
09:10 - 10:15	Power Supply design from an EMC perspective – Monolithic Power Systems, Inc.
10:15 - 10:30	Coffee break
10:30 - 11:30	Inductors + Capacitor selection – Würth Elektronik
11:30 - 12:30	free Lunch
12:30 - 13:45	Power Supply design from an EMC perspective – Monolithic Power Systems, Inc.
13:45 - 14:15	Coffee/afternoon break
14:15 - 15:30	Boost Converter Demo from an EMC-perspective – Würth Elektronik
15:30 - 16:00	Questions and wrap up

MORE INFORMATION

Power Supply design fundamentals and component selection
- Monolithic Power Systems, Inc.
There are many decisions to make when designing a SMPS, so this session will take you through the initial design decisions when selecting the value of inductor and input and output capacitors. It will then look at the trade-offs in the design, the impact of these component choices and a review of the losses within the circuit. Then finally look at types of control topology and their influence on the transient response

Inductor + Capacitors design - Würth Elektronik
A practical and structured overview of how to select inductors and capacitors for DC/DC converter designs. For inductors it introduces concepts such as magnetic flux density, permeability, core behavior, and inductor losses and how they influence component performance in real designs. For capacitors it covers the fundamentals including permittivity, technology differences, lifetime, aging effects, and DC-bias behavior.

Power Supply design from an EMC perspective - Monolithic Power Systems, Inc.
This presentation will look at the sources of noise within a SMPS and identify common mistakes found in PCB design causing poor EMC performance. We will then look at good layout techniques to minimize EMC, tips for further improvement and the advantages achieved when using Spread spectrum clocking.

Boost Converter Demo from an EMC-perspective - Würth Elektronik
A deep dive into EMI, stability, layout practices, and component selection for DC/DC converters. Demoing a Boost converter, it shows good and bad design approaches to schematic, PCB layout and the following emissions. It explains differential- and common-mode noise, demonstrates measurement techniques using EMC equipment, such as LISN, Splitters, near-field probes, and oscilloscopes, and validates findings with Redexpert and LTspice simulations. A clear demonstration of how to improve EMI performance and system stability.