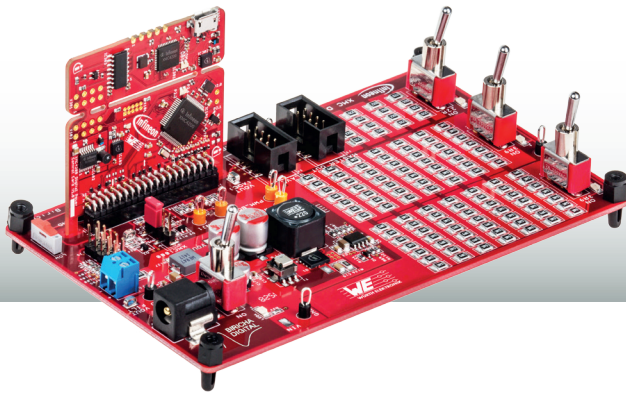


Digital Power is calling!

XMC Digital Power Explorer Kit



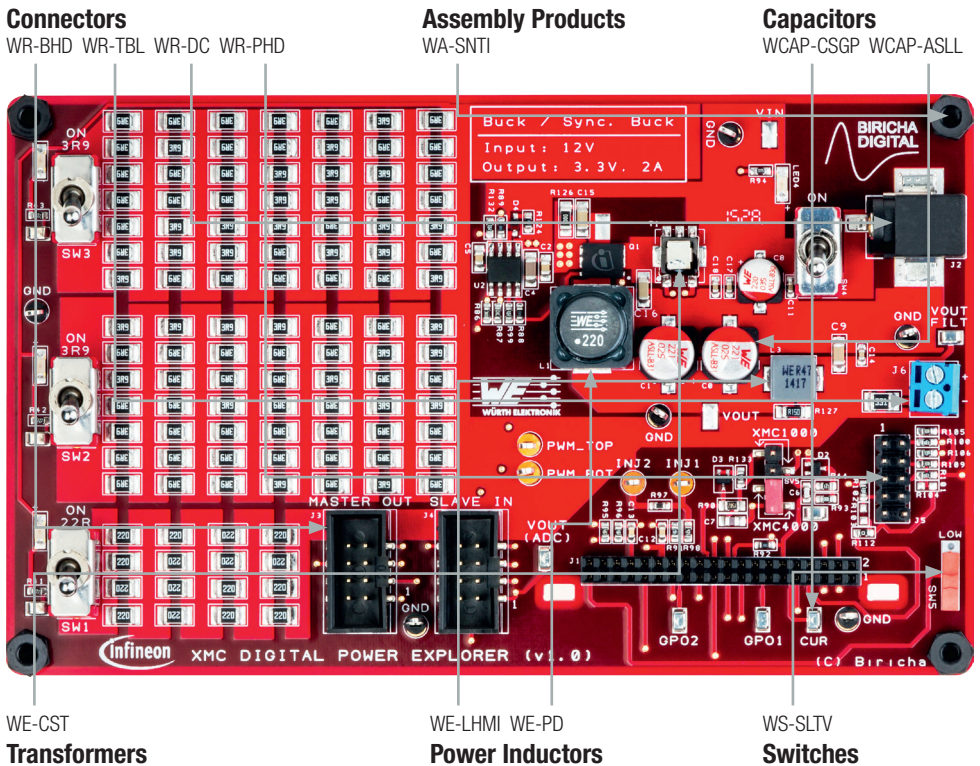
Order Code IC-744 726
Version 1.0

Key Benefits

- Easy entry into digital power control
- Best in class passive components
- Voltage mode control and peak current mode control (with slope compensation) available
- Full software support

XMC Digital Power Explorer Kit

Synchronous buck power board – Component overview



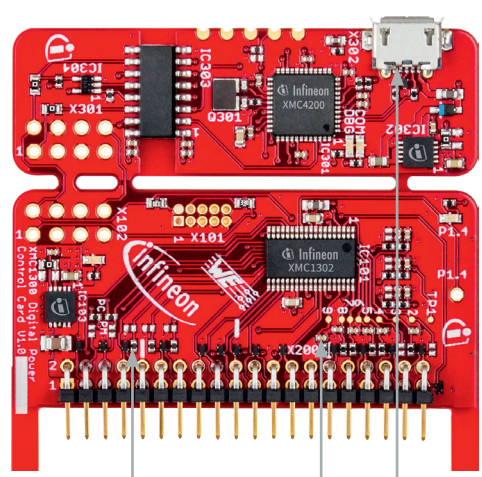
Why Digital Power

- Ability to combine multiple control loops or functions into one device
- One device for multiple/variable outputs
- Less carbon emissions, less nuclear and fossil energy use thanks to higher achievable efficiencies



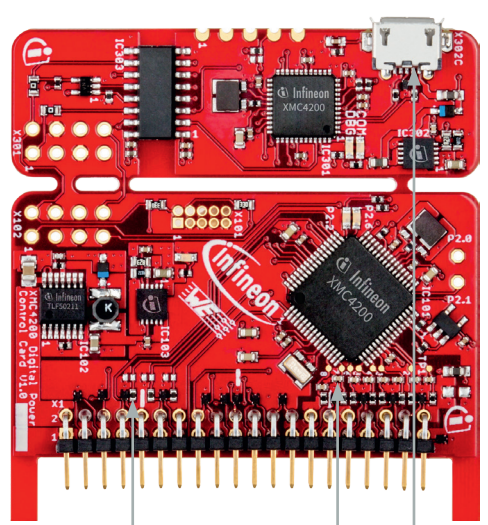
Control Cards – Component overview

XMC1300
ARM® Cortex® – M0 MCU



- WE-CBF
Chip Beads
- WCAP-CSGP
Ceramic Capacitors
- WR-COM
Micro USB

XMC4200
ARM® Cortex® – M4F MCU



- WE-CBF
Chip Beads
- WCAP-CSGP
Ceramic Capacitors
- WR-COM
Micro USB

Key Features

- High resolution PWM (150ps) and smart analog comparators on XMC4200
- PMBus™ communication option
- On board resistive load banks

Würth Elektronik more than you expect



EMC Components – Chip Bead Ferrites

- WE-CBF SMD EMI Suppression Ferrite Bead

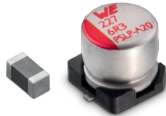


Connectors

- WR-BHD 2.54 mm Male SMT Box Header
- WR-TBL Serie 1031 – 3.50 mm Horiz. Entry Modular
- WR-DC Power Jack Right Angled SMT Ø 6.4 with pegs
- WR-PHD 2.54 mm THT Dual Pin Header
- WR-PHD 2.54 mm SMT Pin Header
- WR-PHD 2.00 mm Dual Socket Header

Capacitors

- WCAP-CSGP Ceramic Capacitors
- WCAP-ASLL Aluminum Electrolytic Capacitors



Switches

- WS-SLTV Slide Switch
10 x 2.5 mm THT



Power Magnetics - Power Inductors

- WE-LHMI SMD Power Inductor
- WE-PD SMD Shielded Power Inductor



Assembly

- WA-SNTI Plastic Spacer Stud,
metric, Thread Clip



Transformers

- WE-CST Current Sense Transformer



LED

- WL-SMCW SMD chip LED top view
mono-color waterclear



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