WÜRTH ELEKTRONIK
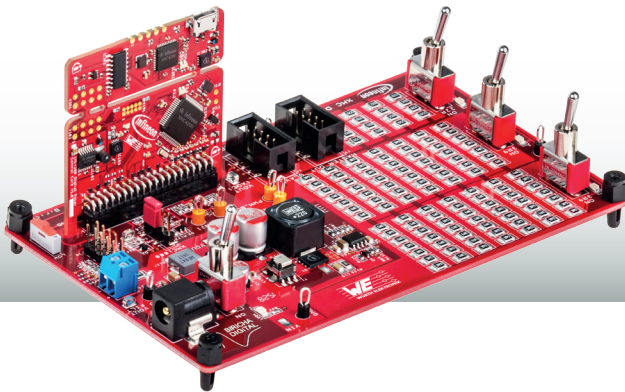
Digital Power is calling!
XMC Digital Power Explorer Kit

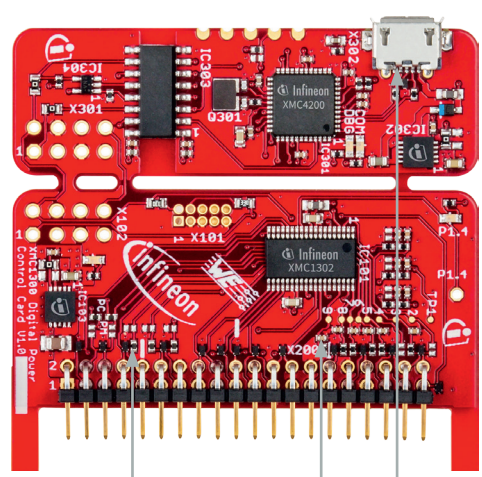**Order Code IC-744 726**
Version 1.0

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
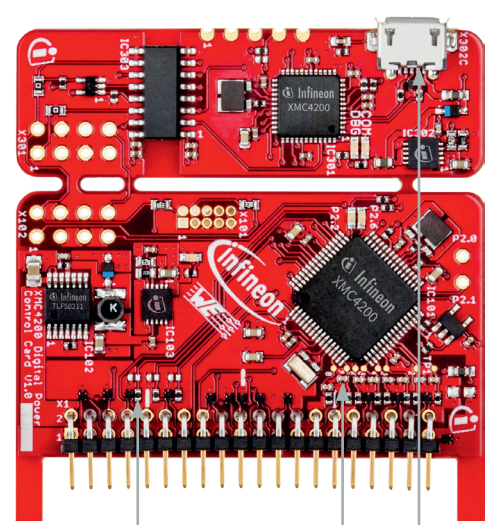- Full software support

XMC Digital Power Explorer Kit

Synchronous buck power board – Component overview

Connectors
WR-BHD WR-TBL WR-DC WR-PHD

Assembly Products
WA-SNTI

Capacitors
WCAP-CSGP WCAP-ASLL

WE-CST
Transformers

WE-LHMI WE-PD
Power Inductors

WS-SLTV
Switches

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

XMC4200
ARM® Cortex® – M4F MCU

WE-CBF
Chip Beads

WCAP-CSGP
Ceramic Capacitors

WR-COM
Micro USB

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

WÜRTH ELEKTRONIK

EMC Components – Chip Bead Ferrites
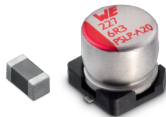- WE-CBF SMD EMI Suppression
  Ferrite Bead

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

DIE NECKARPRINZEN E-IC-7/4.4726 BR 1015.250.FtY

Würth Elektronik offers more complete solutions, such as sample kits with continuous free re-fills,
EMC lab support, seminars, technical design books and much more! Want more info about your kit?
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