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Digital control kit KIT_3KW_2LLC_DI_CTRL

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Digital control kit KIT_3KW_2LLC_DI_CTRL for EVAL_3KW_2LLC_xx boards



Ordering code: KIT_3KW_2LLC_DI_CTRL

This adapter kit is intended for use when replacing the former card by a 1:1 similar version, incase something happened to your original one. The kit offers Infineon's XMC4400 microcontroller ARM® Cortex®.

Board components

- XMC™ microcontroller (XMC4400-F64K512 AB)
- Linear voltage regulator (IFX1763XEJ V33)
- Silicon Schottky diode (BAS 52-02V)

To be used with the following boards

- EVAL_3KW_2LLC_P6_220
- EVAL_3KW_2LLC_P6_247
- EVAL_3KW_2LLC_C7_20
- EVAL_3KW_2LLC_C7_47
- EVAL_3KW_2LLC_P7_47
- EVAL_3KW_2LLC_CFD7

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Product features

BAS 52-02V

- Silicon Schottky diode
- Medium current rectifier Schottky diode
- Low forward voltage at 200 mA
- High reverse voltage
- Pb-free (RoHS compliant) package1)
- Qualified according AEC Q101

IFX1763XEJ V33

- Low noise down to 30 µVRMS (BW=10 Hz to 100 kHz)
- Low quiescent current: 30 µA
- Very low Shutdown Current: <1 µA
- No Protection Diodes Needed
- 500mA Current Capability

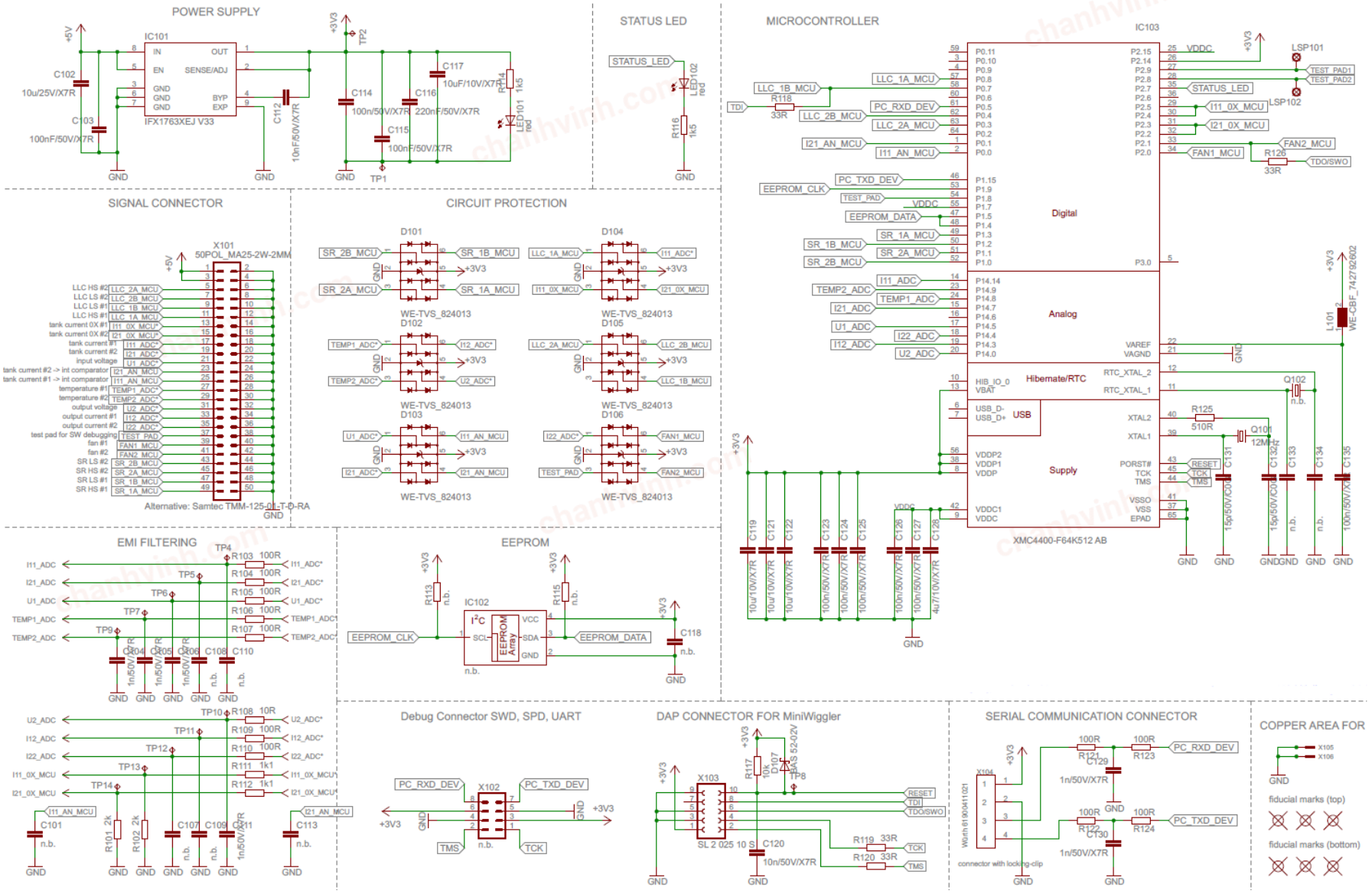
XMC4400-F64K512 AB

- ARM® Cortex®-M4, 120 MHz, incl. single cycle DSP MAC and floating point unit (FPU)
- 8-channel DMA + dedicated DMAs for USB and Ethernet
- USB 2.0 full-speed on-the-go
- CPU frequency: 120 MHz
- eFlash: 256 kB including hardware ECC
- 80 kB SRAM
- Package: PG-LQFP-100



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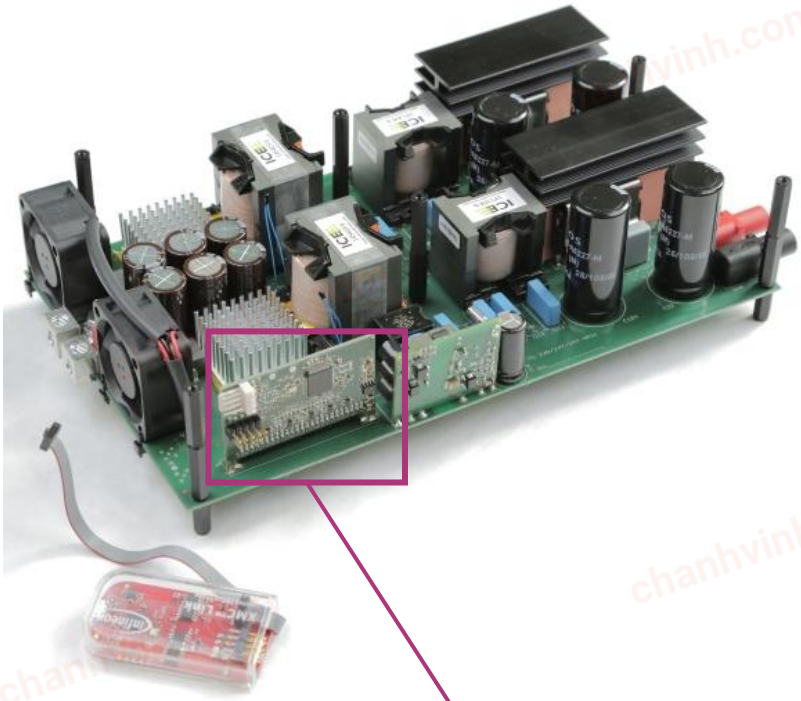
Schematic



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Base board EVAL_3KW_2LLC_xx with control card KIT_3KW_2LLC_DI_CTRL



Digital control card:
KIT_3KW_2LLC_DI_CTRL

Ordering code of the main board:
EVAL_3KW_2LLC_C7
EVAL_3KW_2LLC_P7
EVAL_3KW_2LLC_CFD7

Infineon's **3KW 2LLC** boards showcase how to design a half-bridge LLC stage of a server SMPS with the target to meet 80+ Titanium standard efficiency requirements. The **KIT_3KW_2LLC_DI_CTRL** can be used with any of Infineon's EVAL_3KW_2LLC_XX boards, replacing the original by that 1:1 card.

Application note and general description:

- Evaluation board EVAL 3KW_2LLC_C7
- General description EVAL_3KW_2LLC

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Support

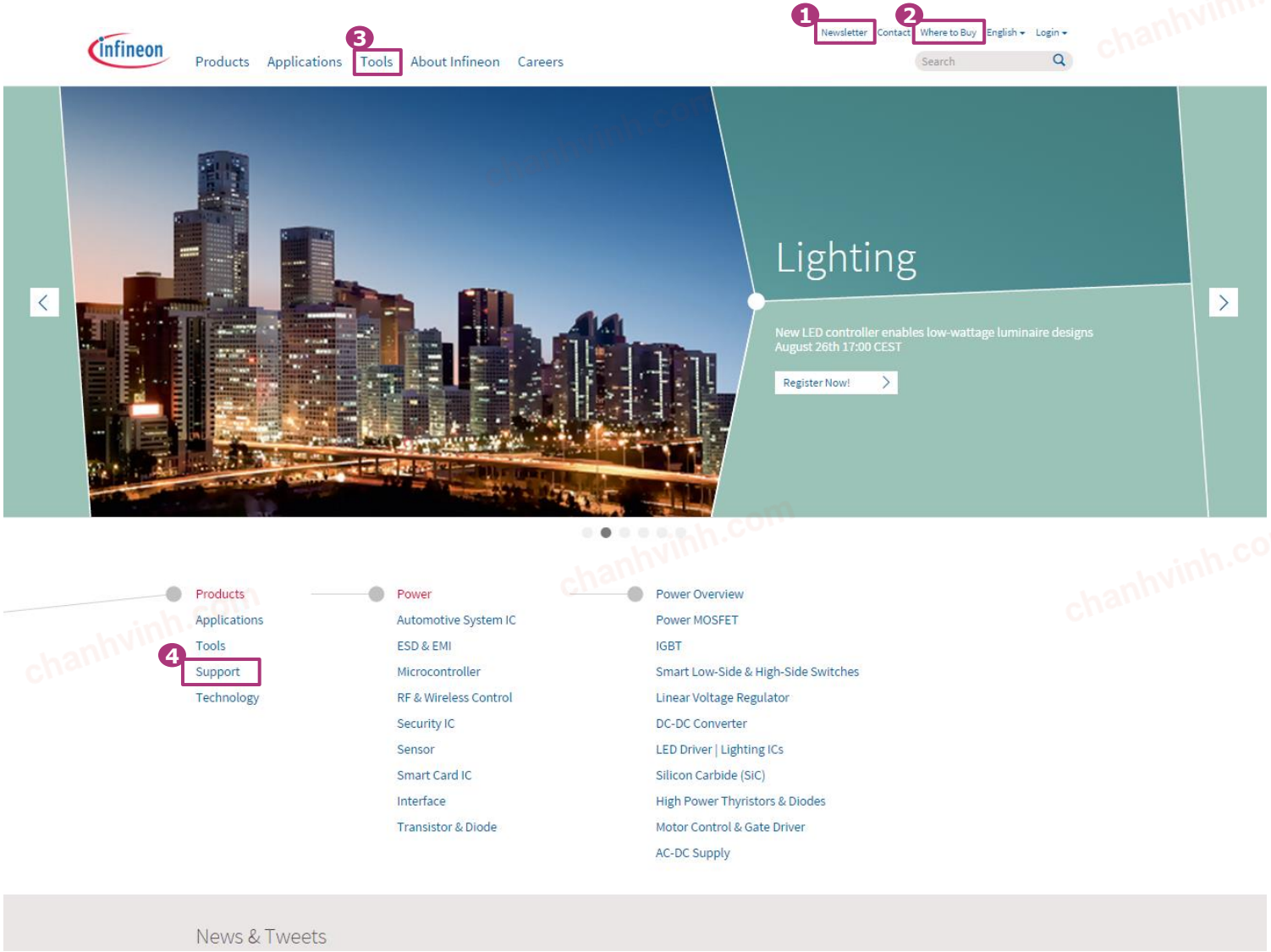


Technical Material	› Application Notes › Simulation Models › Datasheets › PCB Design Data	› Evaluation boards EVAL_3KW_2LLC_C7 EVAL_3KW_2LLC_P7
Evaluation Boards	› Evaluation Boards › Demoboards › Reference Designs	› www.infineon.com/evaluationboards
Videos	› Technical Videos › Product Information Videos	› www.infineon.com/mediacenter

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