Analog control kit KIT_600W_LLC_AN_CTRL

From **digital** to **analog** control

for EVAL_600W_12V_LLC evaluation boards

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Analog control kit KIT_600W_LLC_AN_CTRL for EVAL_600W_12V_LLC



Ordering code:
KIT_600W_LLC_AN_CTRL

This adapter kit is intended for use when replacing a digital control card with its analog alternative. The kit offers as a replacement option Infineon's LLC resonant mode controller ICE2HS01G.

Board components

- LLC Resonant mode controller ICE2HS01G

To be used with the following boards

- EVAL_600W_12V_LLC_C7
- EVAL_600W_12V_LLC_P7

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Product features

ICE2HS01G



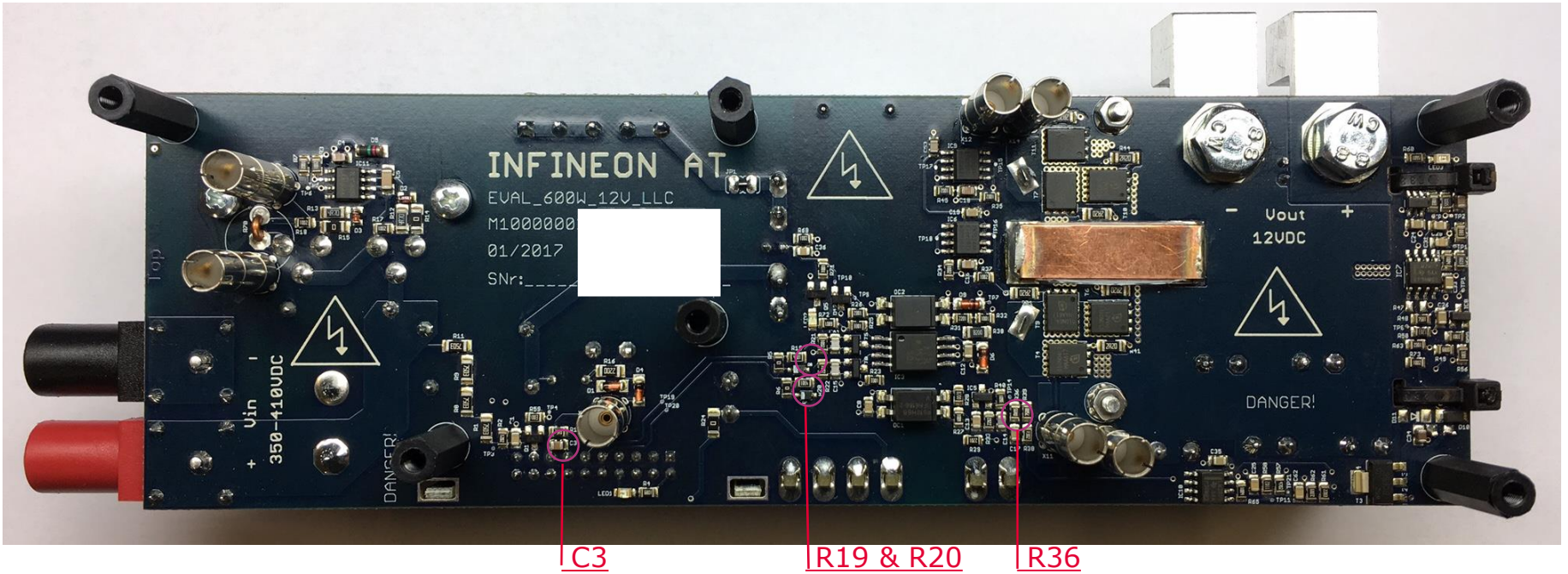
- Resonant mode controller for half-bridge LLC resonant converter with synchronous rectification drives
- 20pin DSO package
- 30 kHz to 1 MHz switching frequency
- Adjustable minimum switching frequency with high accuracy
- 50% duty cycle for both primary and secondary gate drives
- Adjustable dead time with high accuracy
- Driving signal for synchronous rectification, which supports full operation of half-bridge LLC resonant converter
- Internal and external disable function for synchronous rectification
- Mains input under voltage protection with adjustable hysteresis
- Three levels of overcurrent protection for enhanced dynamic performance
- Open-loop/over load protection with adjustable blanking time and restart time
- Adjustable over-temperature protection with latch-off
- External latch-off enable pin

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Bill of material (rework on mainboard)

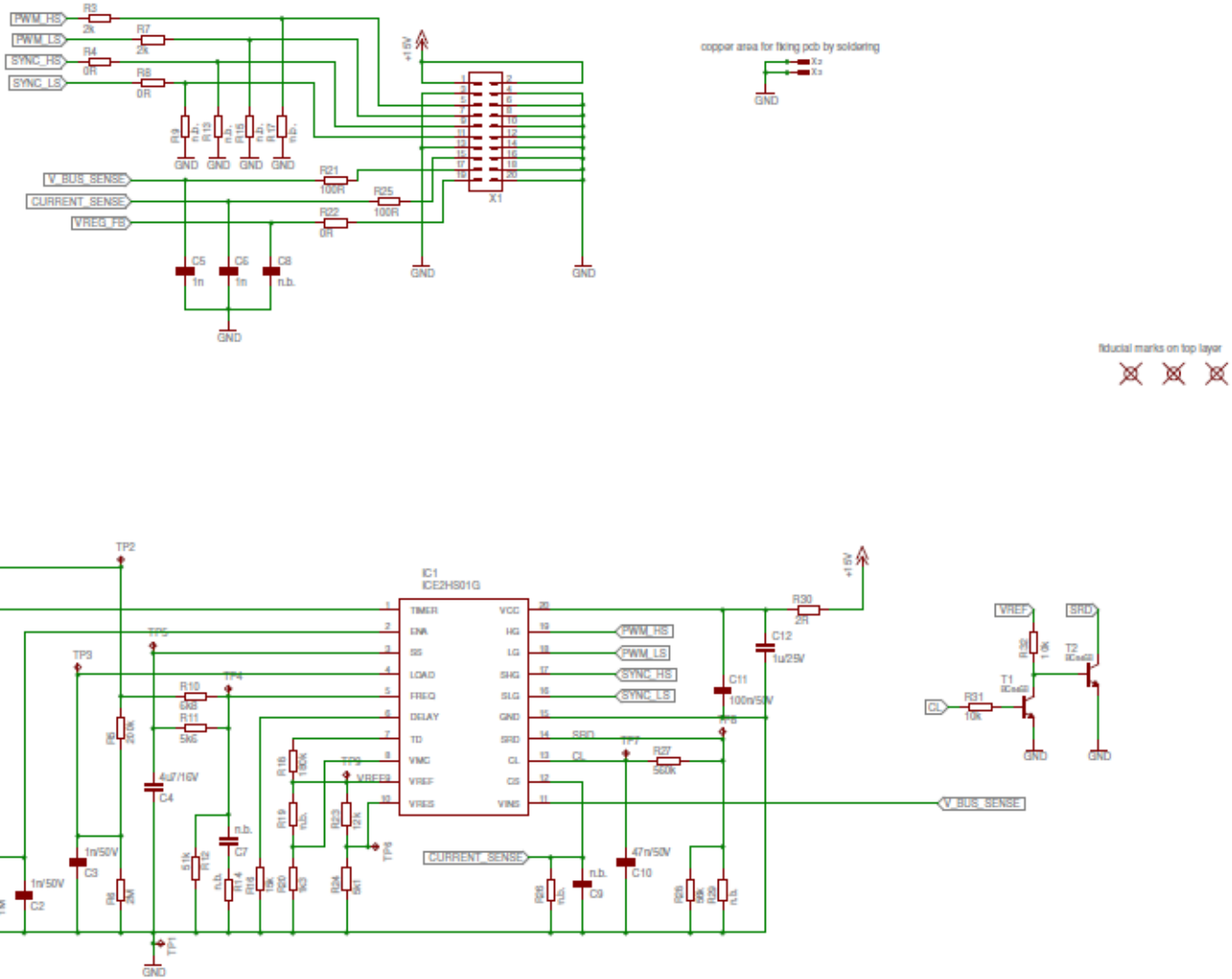
Part	Value	Pieces	Tolerance	Device	Assembling info.	Manufacturer
C3	470n/50V	1		C-EU_C0805*	Replace with 470n/50V	
R19	4K3	1	±1%	R-EU_R0805 *	Replace with 4K3	
R20	4K3	1	±1%	R-EU_R0805 *	Replace with 4K3	
R36	56R	1		R-EU_R0805 *	Assemble 56R	
IC1	Board	1		KIT_600W_LLC_AN_CTRL		**Infineon**

* All needed replacement material is included in the KIT.



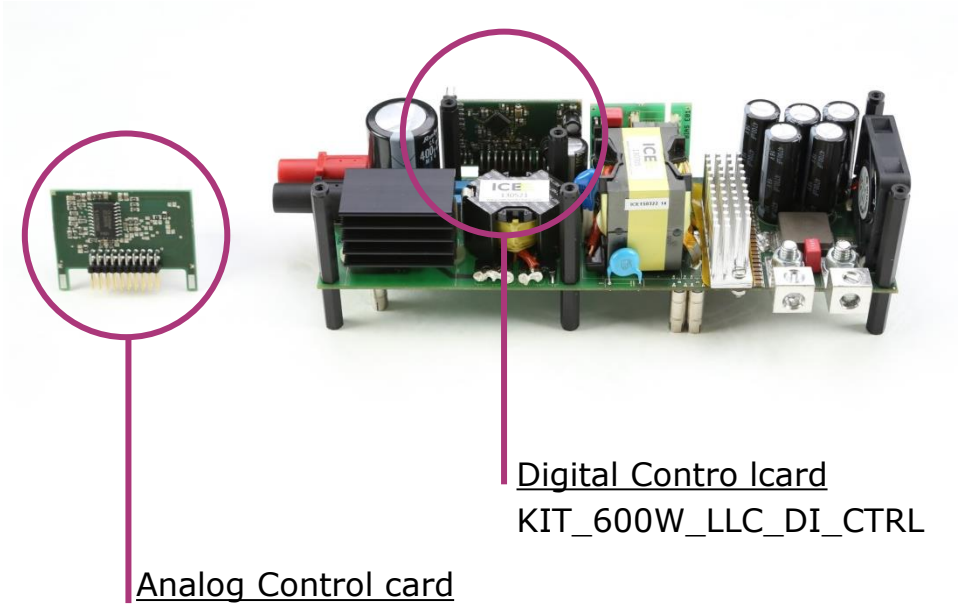
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Schematic



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Base board EVAL_600W_12V_LLC_xx showing analog and digital control card



Ordering code:
EVAL_600W_12V_LLC_C7
EVAL_600W_12V_LLC_P7

Infineon's 600 W 12 V LLC 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_600W_LLC_AN_CTRL** can be used with any of Infineon's EVAL_600W_12V_LLC Boards, replacing the digital control card.

Application note:

- Evaluation Board EVAL_600W_12V_LLC_C7_d with 600V CoolMOS™ C7
- Evaluation Boad EVAL_600W_12V_LLC_P7 with 600V CoolMOS™ P7

www.infineon.com/600W-LLC-eval

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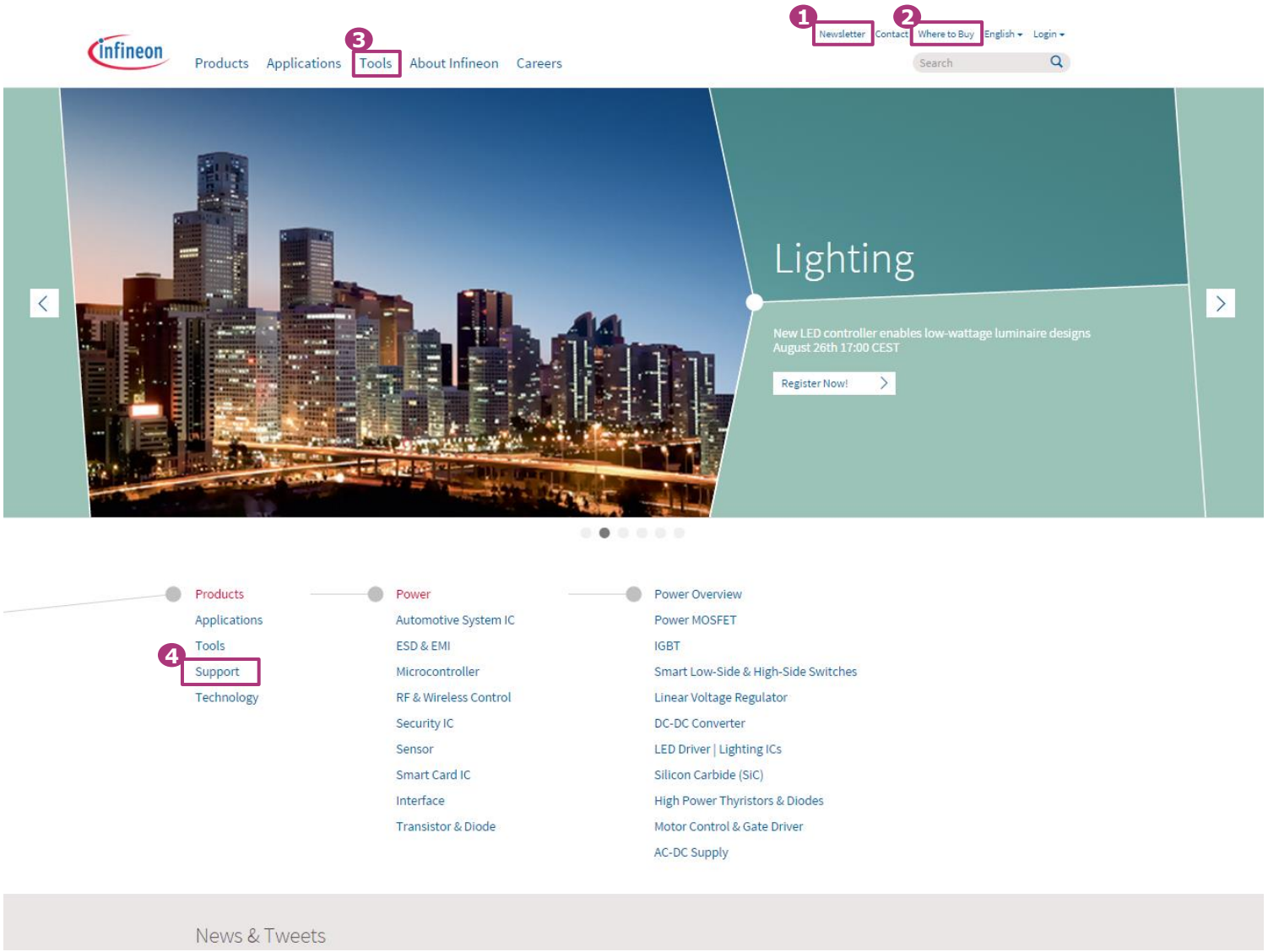
Support



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