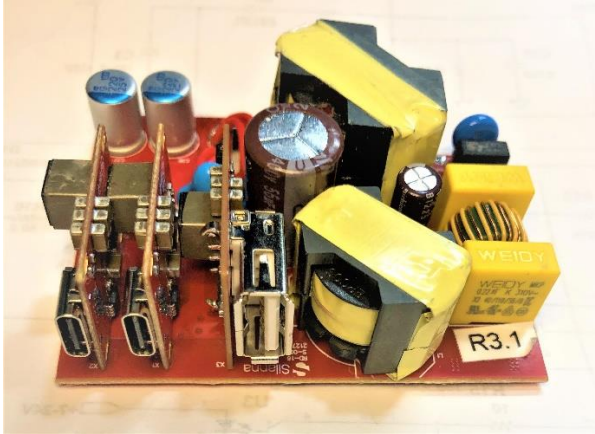


100W 2C1A Multi-Port USB-PD Reference Design using Integrated ACF Controller and High Efficiency Buck Converters (RD-16)

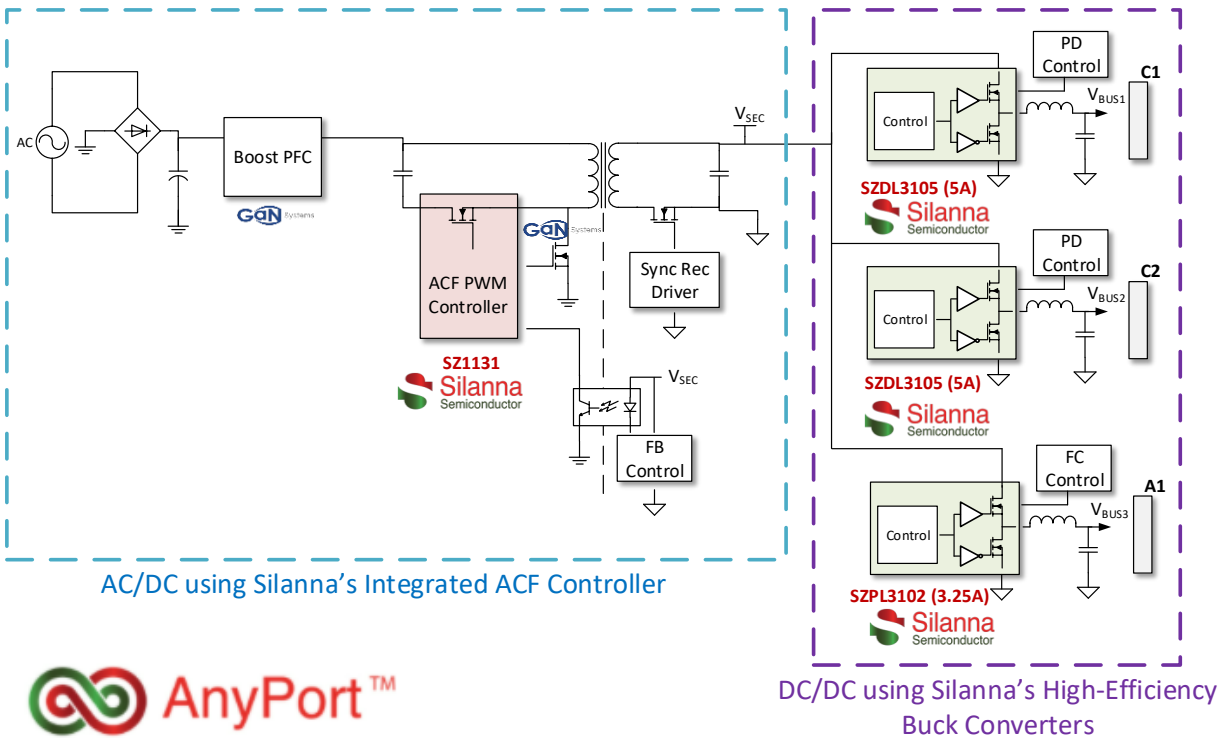
Silanna Semiconductor's SZ1131 paired with SZDL3105, SZPL3102 and GaN Systems' GS-065-011-1-L deliver best-in-class power density and performance



Key Specs:

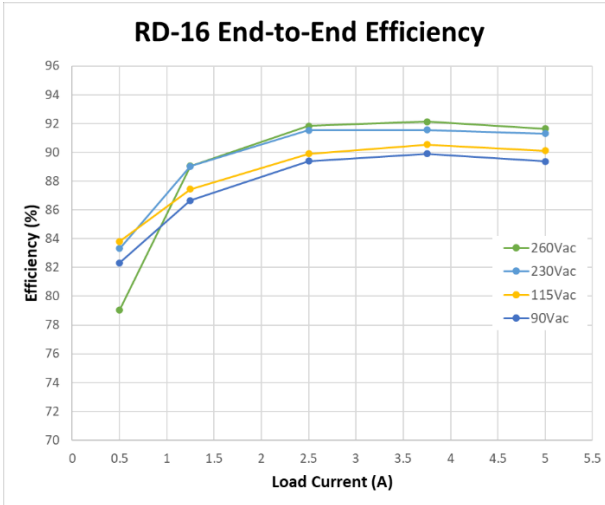
- Input: 90-265 VAC
- Output Power: 100W Max
- Output Ports: 2C1A
- Type-C Ports: 100W Max (5V/3A, 9V/3A, 15V/3A, 20V/5A and PPS)
- Type-A Port: 18W Max, QC 2/3 (5V/3A, 9V/2A)
- Power Density: 19.5W/inch³ (uncased)
- Dimensions: 68.6mm x 54mm x 22.7mm

Schematics



100W 2C1A Multi-Port USB-PD Reference Design using Integrated ACF Controller and High Efficiency Buck Converters (RD-16)

Silanna Semiconductor's SZ1131 paired with SZDL3105, SZPL3102 and GaN Systems' GS-065-011-1-L deliver best-in-class power density and performance



SZ1131 (Fully Integrated Active Clamp Flyback Controller) – Full Production Released

- Integrated UHV active clamp FET, active clamp driver and start-up regulator
- Capable of delivering > 95% efficiency
- OptiMode™ cycle-by-cycle adaptive digital control
- Ultra-low no-load power consumption
- Up to 65W output power for universal input
- 100W+ output power with front-end PFC
- 16-pin SOIC package



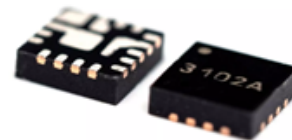
SZDL3105 (High Voltage, High Efficiency, 100W Buck Converter) – Full Production Released

- 667 kHz switching frequency
- Optimal high efficiencies for 3.3 V to 21 V Vout
- Maximum output current of 5 A
- Wide input voltage range: 7 V to 27 V
- Selectable soft-start times
- OCP/OVP/OTP protections
- Programmable UVLO
- 4 mm x 4 mm QFN package



SZPL3102 (High Voltage, High Efficiency, 65W Buck Converter) – Full Production Released

- Selectable switching frequency up to 2 MHz
- Optimal high efficiencies for 3.3 V to 21 V Vout
- Maximum output current of 3.25 A
- Wide input voltage range: 7 V to 27 V
- Selectable soft-start times
- OCP/OVP/OTP protections
- Programmable UVLO
- 3 mm x 3 mm QFN package



For more information please visit: www.powerdensity.com