



# Silicon Labs Si3471 Power over Ethernet PSE



# Silicon Labs Power Over Ethernet Overview

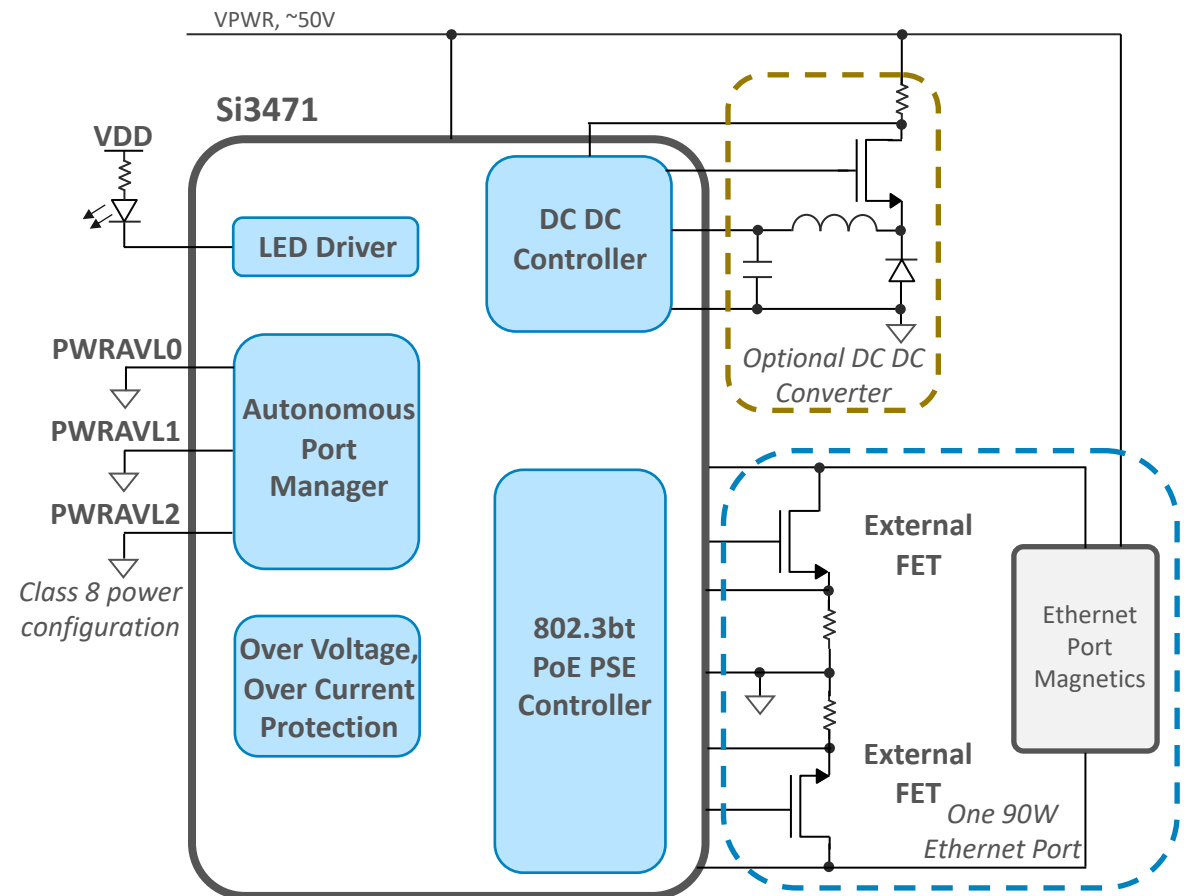
- Silicon Labs has made power over Ethernet products for over 10 years
  - Both power sourcing equipment (PSE) chips for putting power onto Ethernet cables and powered device (PD) chips for taking power off of Ethernet cables.
- Si3471 powers a single Ethernet port with up to 90W of power
  - Si3471 will be our first PSE product capable of 90W and compliant with the new IEEE 802.3bt spec
  - Very simple BOM and very easy to use – no software or host required
- Target applications include:
  - PoE injectors/mid-spans which put power onto a non-PoE Ethernet cable
  - Ethernet switches needing a single 90W PoE Ethernet port
  - Fiber to copper Ethernet adapters
  - Any system needing a single port 90W Ethernet port



# Si3471 Single Ethernet Port 802.3bt PSE with DC DC Controller

Launching  
Dec 2019

- Fully autonomous, 90W single Ethernet port 802.3bt PSE
- Perfect for “injectors” or single port midspans
  - No software, no MCU, no host controller needed
  - Max power set pulling PWRAVL pins high or low
  - On chip, 100mA 50V -> 3.3V DC DC converter
- Small 5x7mm QFN package, simple BOM
  - 2 FETs for four pair PoE power
  - 2 current sense resistors
  - Inductor, capacitor, diode, and FET for 3.3V DC DC



# Si3471 90W PoE Midspan EVB

Launching  
Dec 2019

- Easy for customers to turn into an end product
  - Perfect for PD customers needing to provide their end customer with PoE injector
- Tiny, two layer daughtercard includes Si3471, FETs, and dc dc converter
  - 1 x 1.25 inches, 25 x 32mm
- Simple, two layer baseboard includes RJ45 jacks, Ethernet magnetics, and power connectors
- IEEE 802.3bt compliant
  - Sifos test report in user guide

