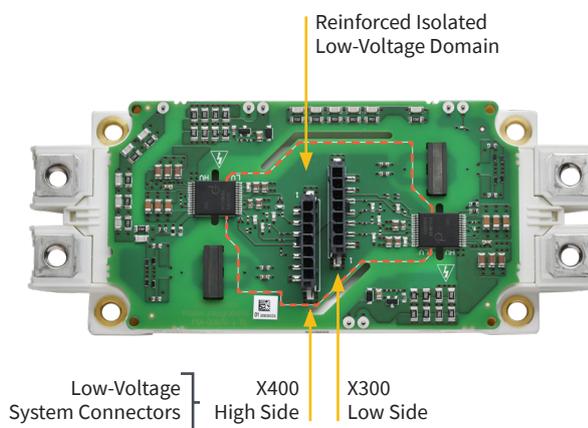




SCALE™ EV 2SP0215F2QxC

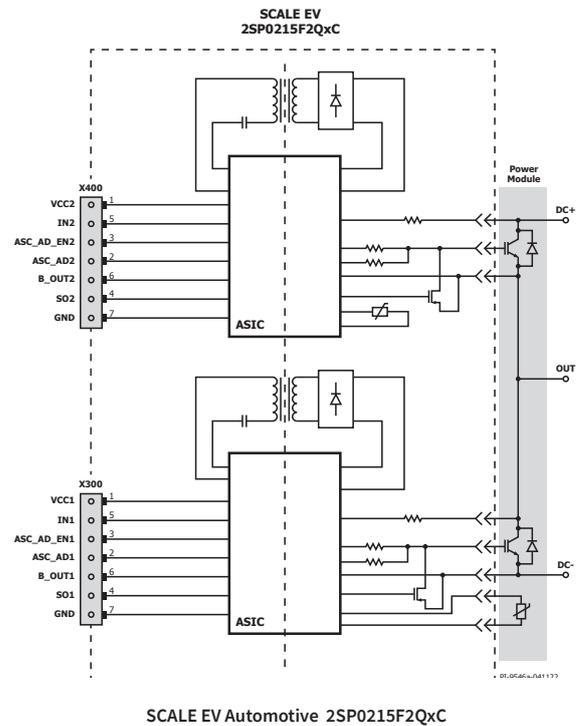
- Complete board-level gate driver solution
- Automotive qualified
- ASIL ready
- Fully characterized with 1200 V IGBT half-bridge modules

SCALE EV (2SP0215F2QxC) Shown Mounted on the EconoDUAL™3 Dual IGBT Module



Automotive Gate Driver Board

- Ready-to-use, dual-channel gate driver for 1200 V EconoDUAL and equivalent IGBT and SiC MOSFET modules
- Reinforced isolation
- Enables up to ASIL D in automotive traction systems
- SEooC class III according to ISO 26262
- Automotive qualified
- Active discharge function
- Active short-circuit function
- Active Miller clamp
- Advanced over-voltage control
- Isolated NTC temperature measurement
- Gate monitoring
- Dual 5 V Supply
- PressFIT and solder mount compatible
- Protective PCB coating
- Up to 20 kHz operation
- +20 A / -15 A peak gate current
- -40 °C to 85 °C operating ambient temperature



Reinforced Isolation (IEC60664)

- 11 mm primary-secondary creepage; clearance distance
- 6.5 mm primary-secondary
- ± 100 kV / μ s common-mode transient immunity
- Operation altitude up to 5000 meters
- 4 kV Test impulse withstand voltage primary-secondary
- 1.2 kV Operating voltage primary-secondary

Diagnostics & Monitoring

- Dedicated fault output pins
- Digital bitstream telemetry provides:
 - Gate monitor warning
 - DC/DC controller over current monitoring
 - Dead-time warning
 - Interlock warning
 - 5 V input supply under-voltage lockout (UVLO) fault
 - Secondary side under- and over-voltage warning
 - ASiC primary and secondary temperature warning
 - Power module NTC temperature
 - Board temperature
 - Communications failure warning