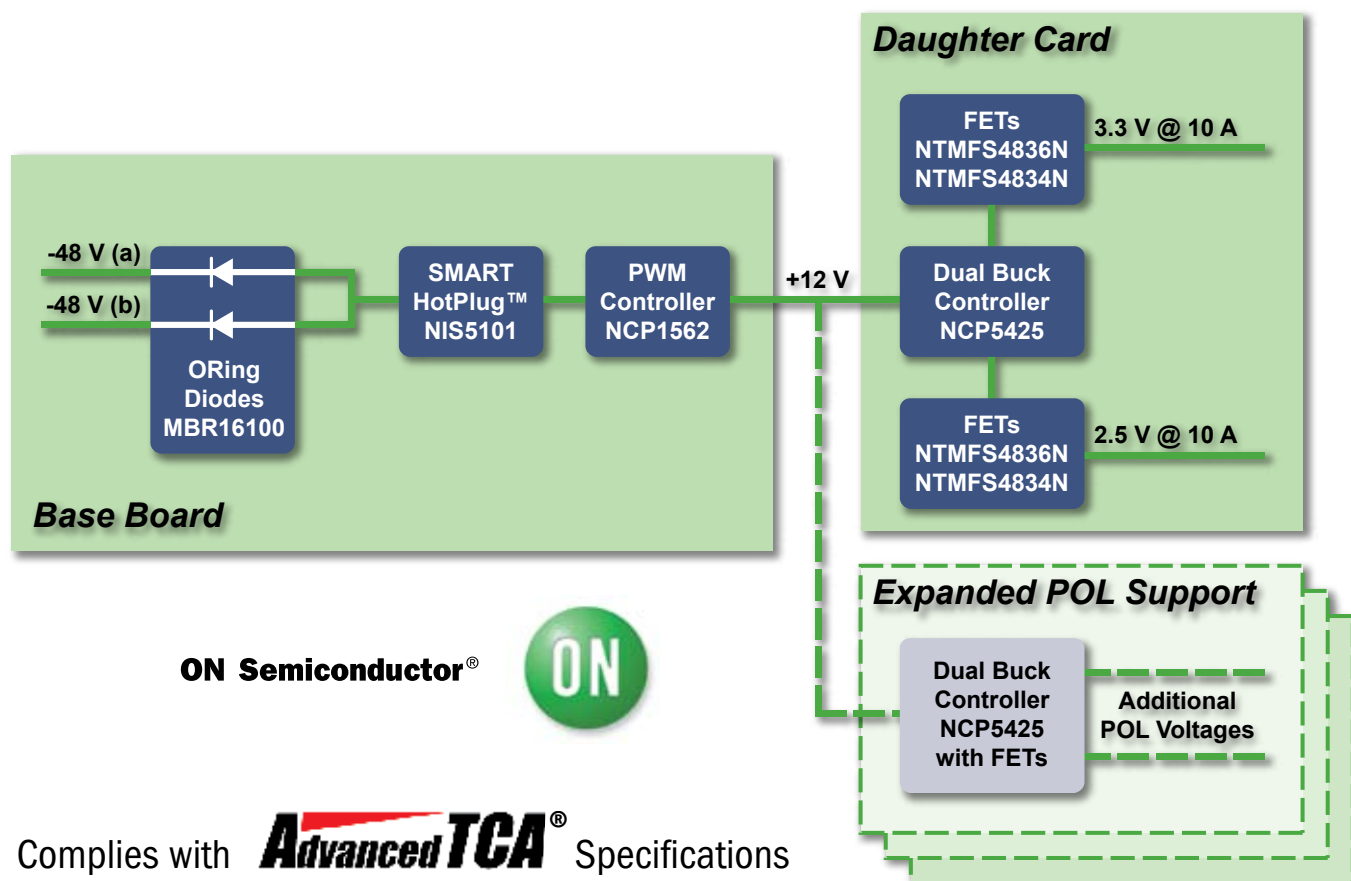


# Presenting -48 V Telecom Power Conversion Solution



*A comprehensive power conversion solution  
for routers, switches and base stations*

- **Highly integrated devices reduce part count**
- **Robust hot swap protection includes innovative MOSFET temperature sensing shutdown**
- **State-of-the-art approach to DC-DC conversion**



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**NIS5101 SMART HotPlug™** - a highly integrated hot swap protection circuit designed to enable the safe insertion and removal of electronic equipment to -48 V backplanes. This device offers an adjustable current limit with no external shunt required, features undervoltage and overvoltage lockouts and includes an integrated power MOSFET switch. A unique temperature-sensing capability makes this the most robust hot swap IC available.

**NCP1562 Active Clamp/Reset PWM Controller** is a voltage mode controller designed for dc-dc converters requiring high efficiency and low parts count. This controller incorporates two in phase outputs with an overlap delay to prevent simultaneous conduction and facilitate soft switching. The device includes soft-stop circuitry to power down the converter in a controlled manner if a severe fault is detected, and a cycle skip detector which enables a soft-stop sequence if a continuous overcurrent condition is present.

**NCP5425 Dual Synchronous Buck Controller** is a highly flexible device with internal gate drivers that can provide two independent outputs or one high current output. This feature-rich controller offers adjustable switching frequency up to 750 kHz and a  $\pm 1\%$  0.8 V reference.

**NTMFS4834N** and **NTMFS4836N MOSFETs** offer high power efficiency and low RDS(on). Additionally, they are offered in SO-8 Flat Lead packages with enhanced thermal performance.

## BILL OF MATERIALS

ON SEMICONDUCTOR DEVICE	PACKAGE	EACH	AVAILABILITY
MBR16100CTG	TO-220	2	Production
NIS5101E1T1G	SPAK	1	Production
NCP1562BDTBR2G	TSSOP-16	1	Sampling
NCP5425DBG	TSSOP-20	1	Production
NTMFS4836NT1G	SO-8FL	2	Production
NTMFS4834NT1G	SO-8FL	2	Production

