I\_OUT V\_OUT

I\_SHARE 5Vsb

NTC LLC\_CT

SR\_PWM

LLC\_PWM

ISHARE\_PWM

FAN\_PWM

RELAY\_PWM

PFC\_PWM

ADC/CMP

PWM

VIN\_L

VIN\_N

PFC\_I

CS\_LIMIT

V\_BULK

NTC

Secondary MCU

(LLC and other control)

ADC/CMP

PWM

Primary MCU

(PFC control)

I2C EEPROM

I2C PMBus

I2C

UART

UART

LLC\_EN

SR\_EN

LED

AC\_NOK

PFC\_NOK

AC\_NOK

PFC\_NOK

output

input

output

**Primary**

**AC Input**

Vbulk,Ipfc Detection

440V

**+**

To LLC

CCM Boost PFC stage

EMI Stage

UART

PFC OK

AC OK

Isolator

Input Voltage

Temperature Sensor

Input Current

Digital Control

Primary Side DSP

Relay

NTC

**Relay control**

**Secondary**

440V

36V Main

Sync Rec

DC-DC

transformer

OR-ing MOSFETs

Half Bridge

LLC

From PFC

Output

Secondary DSP

**Sync Rec Control**

AC OK

SDA/SCL

ISHARE

SMB\_ALERT

POWER GOOD

Digital Control

UART

PFC OK

AC OK

Temperature sensor

FAN RPM

FAN PWM

Isolator

Isolation

IC