PRIMARY MCU

SECONADRY MCU

AC/DC SOURCE

System

Bootloader

Bootloader

Main APP

Main PROGRAM

256 BYTE EEPROM FRU

Calibration Data, Event Log, FRU

12V\_ORING\_MCU, I\_OUT\_MCU

12V\_OUT\_MCU, ISHARE\_IN

STB\_5V\_OUT\_MCU, STB\_I\_OUT\_MCU

CS\_OUT\_READ, T\_SR\_MCU, DAC\_OUT

FAN\_PWM

12V\_SOFT\_TRIM

RELAY\_CTL

VIN\_L

VIN\_N

PFC\_I

CS\_LIMIT

V\_BULK

NTC

ADC/CMP

PWM

Secondary MCU

(LLC and other control)

ADC/CMP

PWM

Primary MCU

(PFC control)

I2C

UART

UART

System

AC\_NOK

PFC\_NOK

AC\_NOK

PFC\_NOK

output

output

input

ORINF\_EN\_MCU, PW\_GOOD

LED1, STB\_ORING\_EN\_MCU

SR\_EN\_MCU, LLC\_DIS

FAN\_CNTRL,ISHARE\_DIS

**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