# eN-MPS Board Schematics

## System Overview:

The eN-MPS-V1.0 board is a hardware platform based on ST32M407F, the board will meet the UL864, EN54-4, GB4717-2005 stardands. It provides the power supply for FAS, printer etc, fullfills the power switch between the main power and battery power seamlessly, maintians full battery capacity through battery charging by main power, acquires board events condition, displays status signal by LED indicators, reports events to or receives commads from CPU module via CAN bus.

# Hardware Specification:

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Main Power Specification:
  AC 220V, 350W, 28V Output.
Battery Specification:
 Chargeable lead-acid battery, 24V/28Ah, max 4A charger current, max 6A discharge current.
Power Output Specification:
  Two resetable 28V/3A output, one 5V/3A output.
  STM32F407VET, ARM Cortex-M4(168MHz, 100Pin)
Memory:
  196 KB on-chip RAM
  512 KB on-chip Flash
Serial Interfaces:
  One debug RS232.
  One non-isolated CAN/RS232 interface.
Status LEDs:
  8 work status LEDs, 7 fuse open indicator LEDs, 6 Communication LEDs.
JTAG :
  SWD Interface.
```

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#### <Core Design>

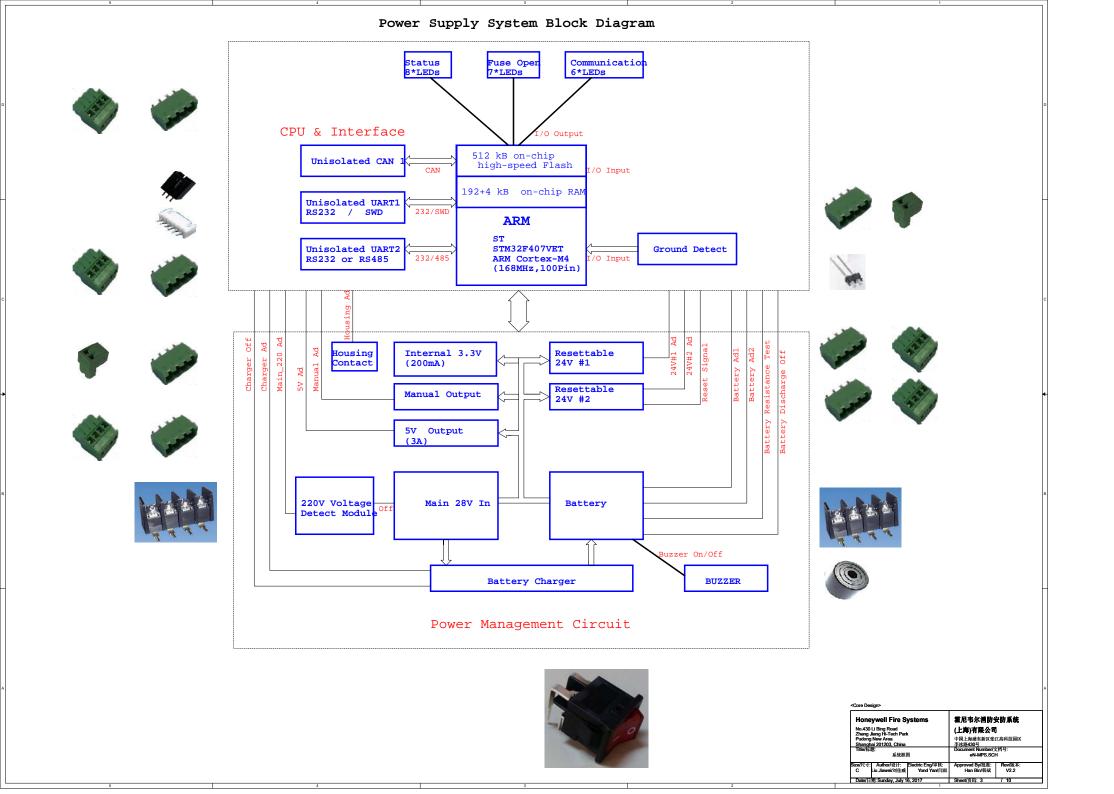
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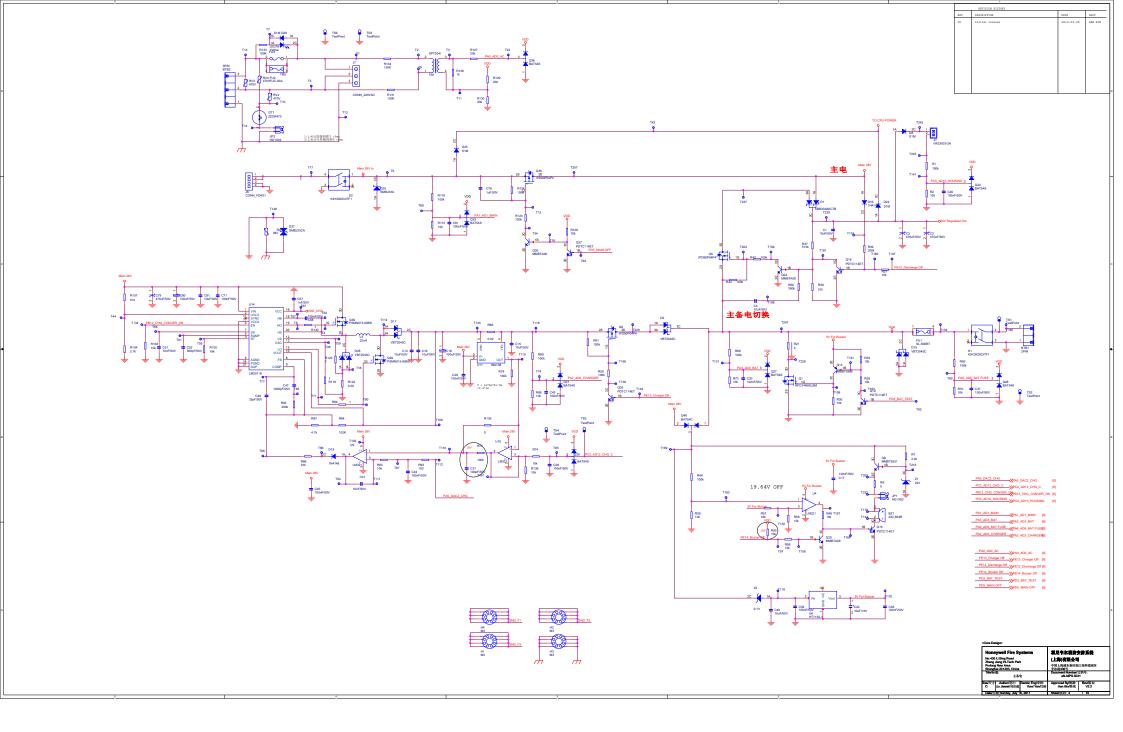
## Revision History

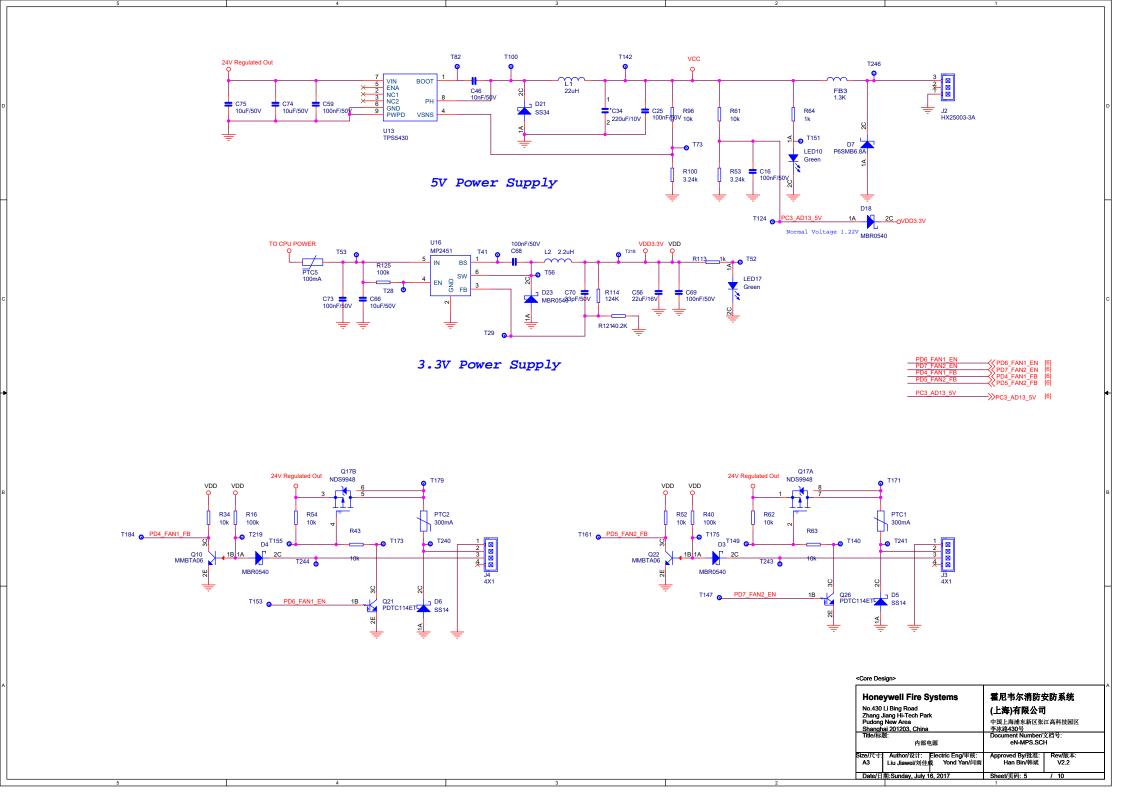
DATE	Rev	Description	Author
2012-03-29	V0.0	Created	Lu, Vito
2012-03-29	V1.1	1: 51. 52使印微调,接法修改 2: 55. 55明是九江大 5. 55月 55月 55月 55日 55日 55日 55日 55日 55日 55日	Yan, yond
2013-11-08	V1.2	1: 汽车保险丝帐孔确分 2: 50电源使用8834 1: 6122 - 12. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	Yan, yond
2014-02-17	V1.3	1. 接地放陽於兩裡加 Liur / Soyd 管 2. 1 年	Yan, yond
2016-06-14	V2.1	1 開於市分科物 15日 2 2 開於市分科物 15日 2 3 押加一个风风物 11世 11日 2 日本风扇检测功能 4 3 3 10世 2 日東 2 日	Liu Jiawei
2017-07-16	V2.2	1. 餘等器主电情况下电缆启动 2. 更改接地检测电路	Liu Jiawei

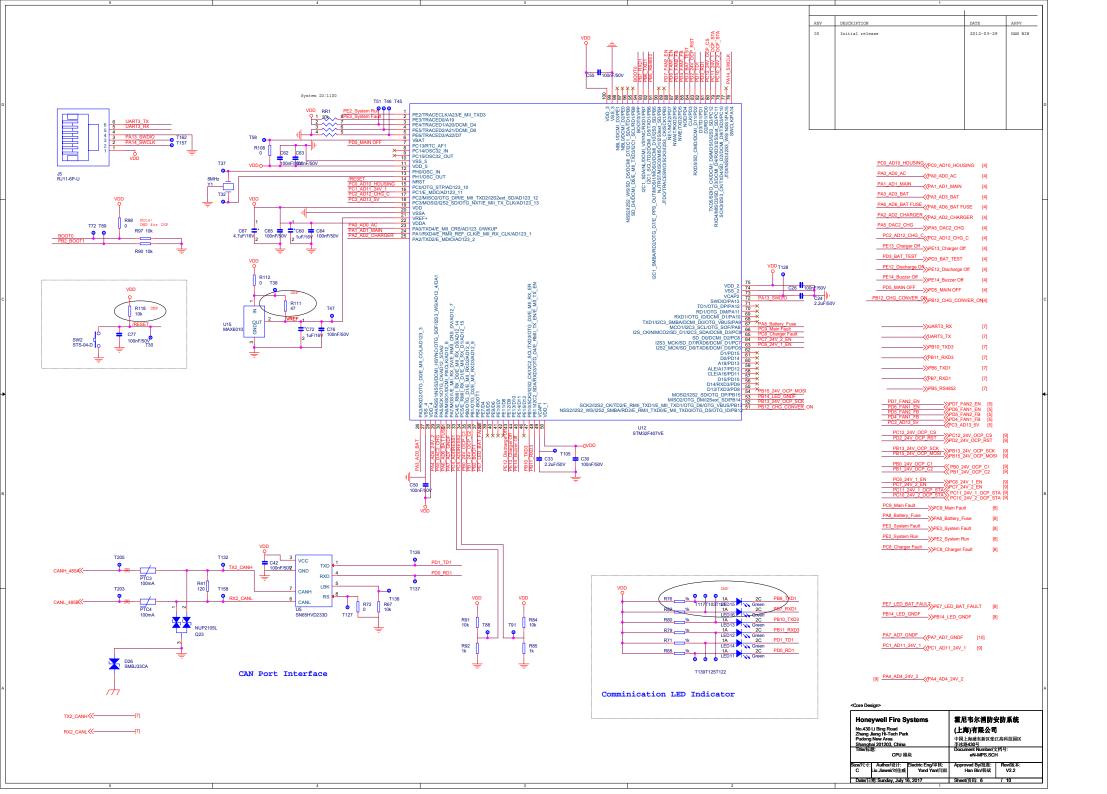
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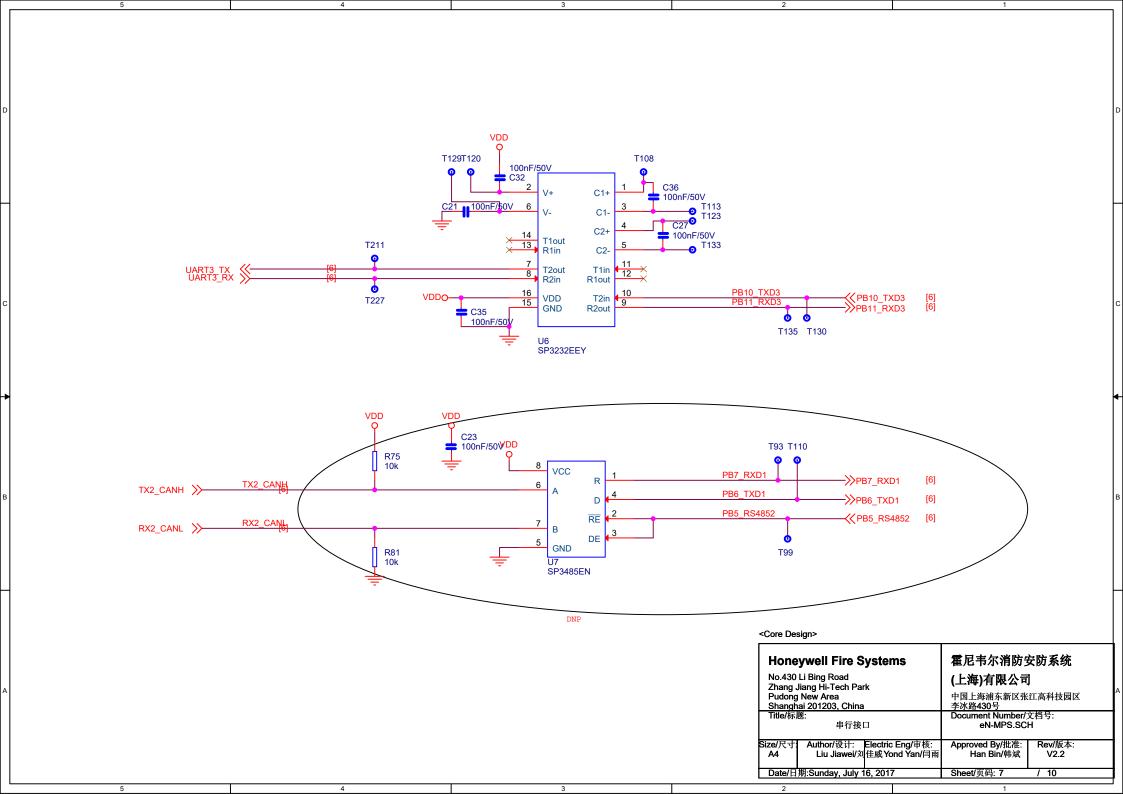
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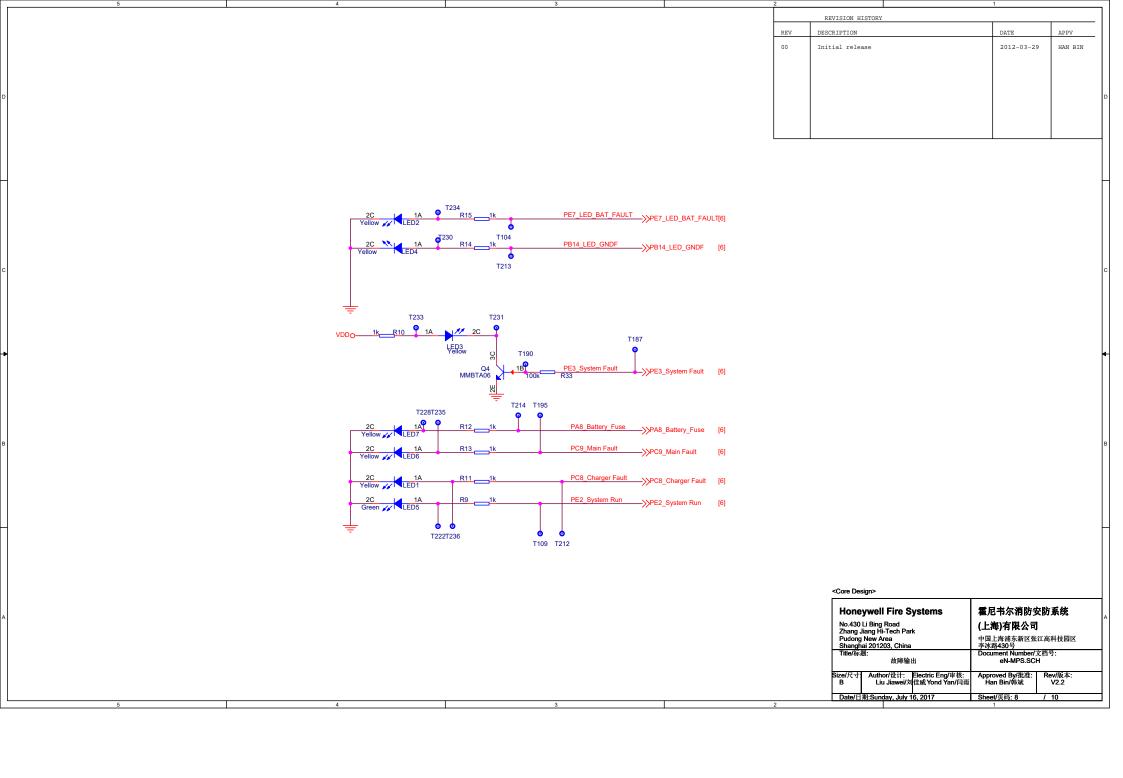


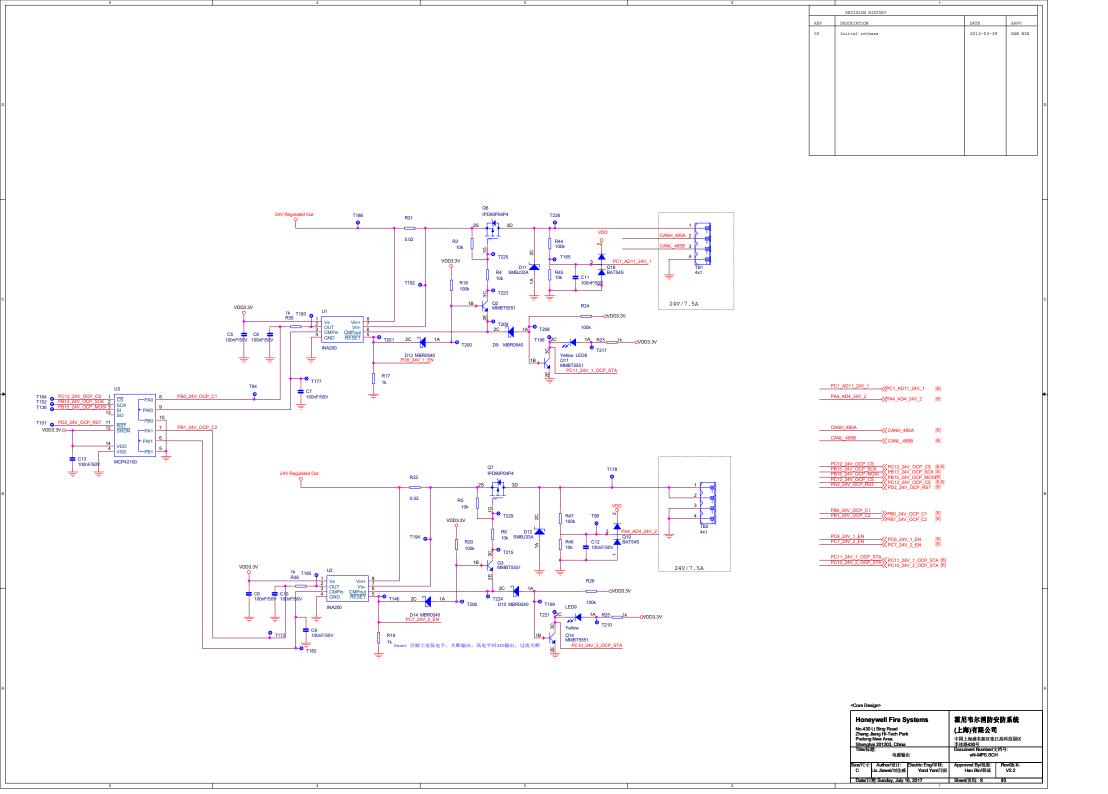


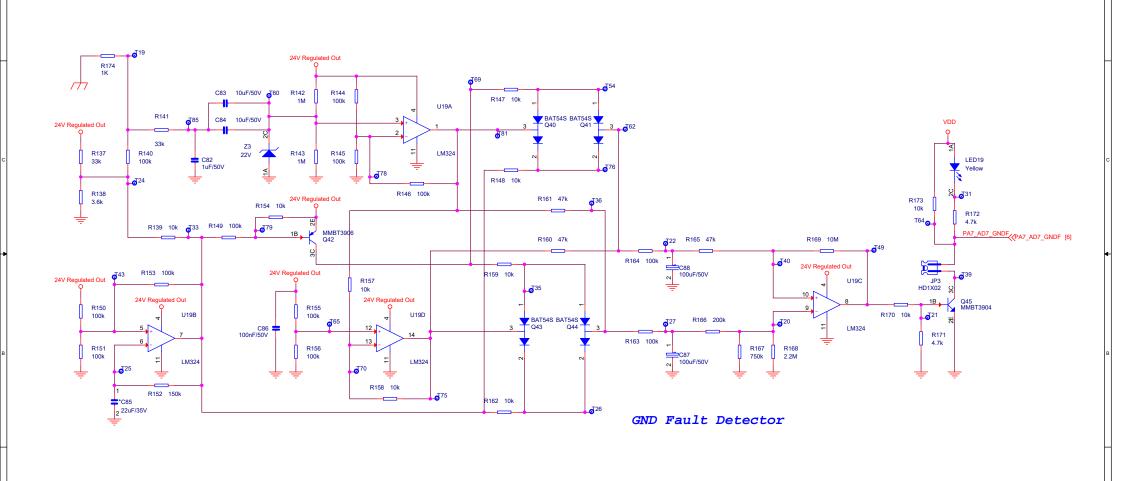












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