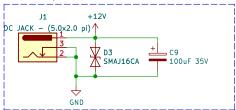
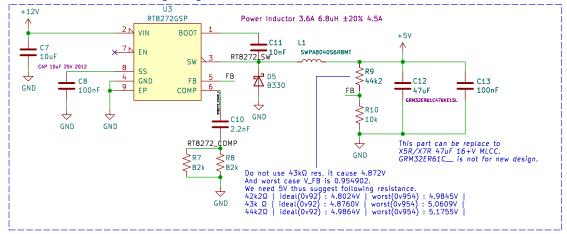


# Power Domain

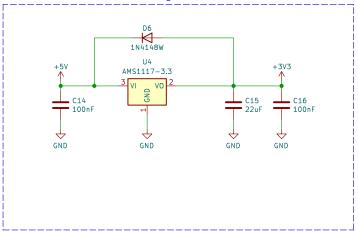
### 12V Input Jack



# 12V to 5V : Switching Regulator



## 5V to 3V3 : Linear Regulator



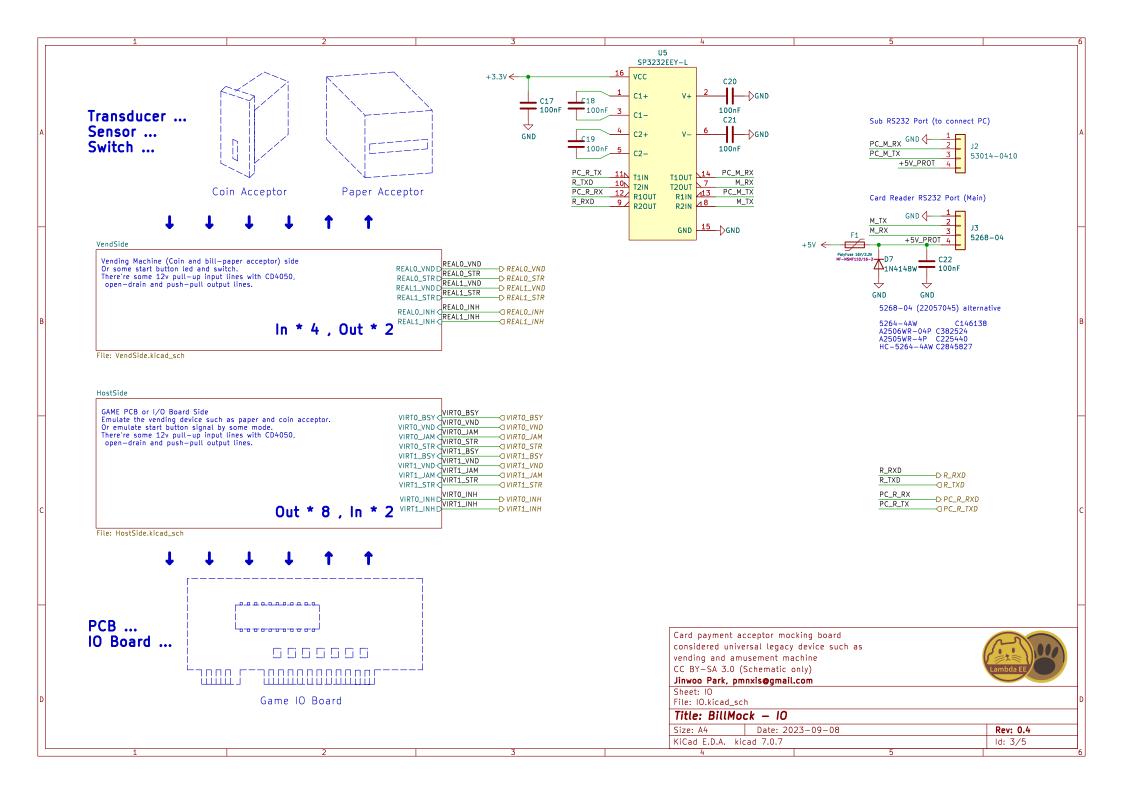


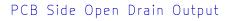
Card payment acceptor mocking board considered universal legacy device such as vending and amusement machine CC BY-SA 3.0 (Schematic only)

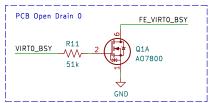
#### Jinwoo Park, pmnxis@gmail.com

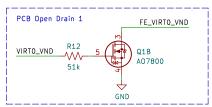
Sheet: Power File: Power.kicad\_sch

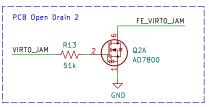
The Division Comment				
Size: A4	Date: 2023-09-08		Rev: 0.4	П
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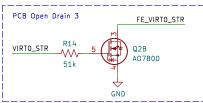


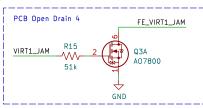


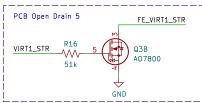






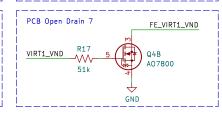






# 

51k



GND

## CHANGE LOG

Formal arcade system use Game PCB have pull up line on input. and this domain make drop to OV very safely, even each pin's voltage level is different.

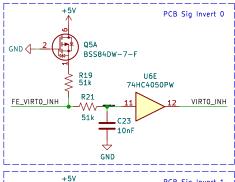
ULN2003AIDR has some issue COM line is shared. so we didn't used for seperate voltage level. Q4:7 was changed to PMV100ENEA from IRFL014PBF. Because IRFL014PBF was obsoleted JLCPCB type. JLCPCB Assembly service don't have stock or option for PMV100. DMN100 and PESD\_ is alternation for this assembly system.

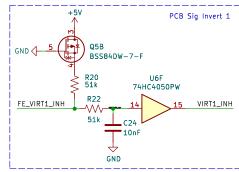
2020-07-20: DMN100 or PMV100 NMOS reduce to dual channel NMOS. Recommend is DMN3190LDW and Alternative is DMN2004DWK Requirements: high desity, high current , Volt accept. Gate,D-S Protection.

2023-05-18:

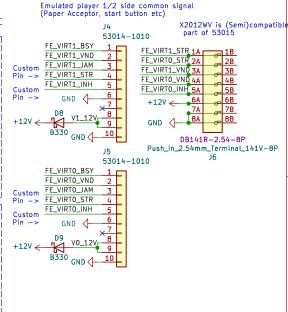
Dual— $N:A\overline{O}7800$ , Used for open—drain output Dual—P:DMP2004VK, Used for inverse voltage input protect. N+P CH: DMG1016V, N/P role both Add B330 to inhibit reverse power output.

## PCB Side extSignal Invert Input





Vend side has  $4.7k\Omega$ . But host and counterside host has res Thus  $10k\Omega$ 



VIRTO\_BSY ✓ VIRTO\_BSY VIRTO\_VND ✓ VIRTO\_VND VIRTO\_JAM ✓ VIRTO\_JAM VIRTO\_STR ✓ VIRTO\_STR VIRT1\_BSY ✓ VIRT1\_BSY VIRT1\_VND ✓ VIRT1\_VND VIRT1\_JAM ✓ VIRT1\_JAM VIRT1\_STR ✓ VIRT1\_STR VIRTO\_INH > VIRTO INH VIRT1\_INH → VIRT1\_INH

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### Jinwoo Park, pmnxis@gmail.com

Sheet: HostSide File: HostSide.kicad\_sch

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	Title: BillMock - Host Side				
	Size: A4	Date: 2023-09-08	Rev: 0.4		
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