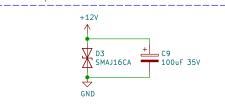
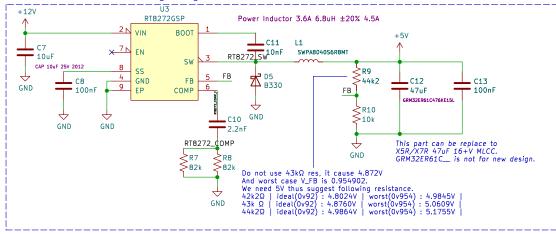


# Power Domain

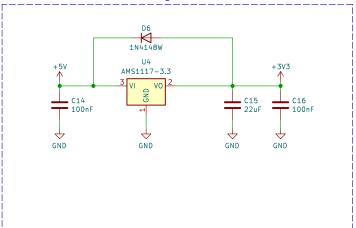
### 12V Input Jack

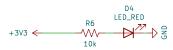


## 12V to 5V : Switching Regulator



## 5V to 3V3 : Linear Regulator



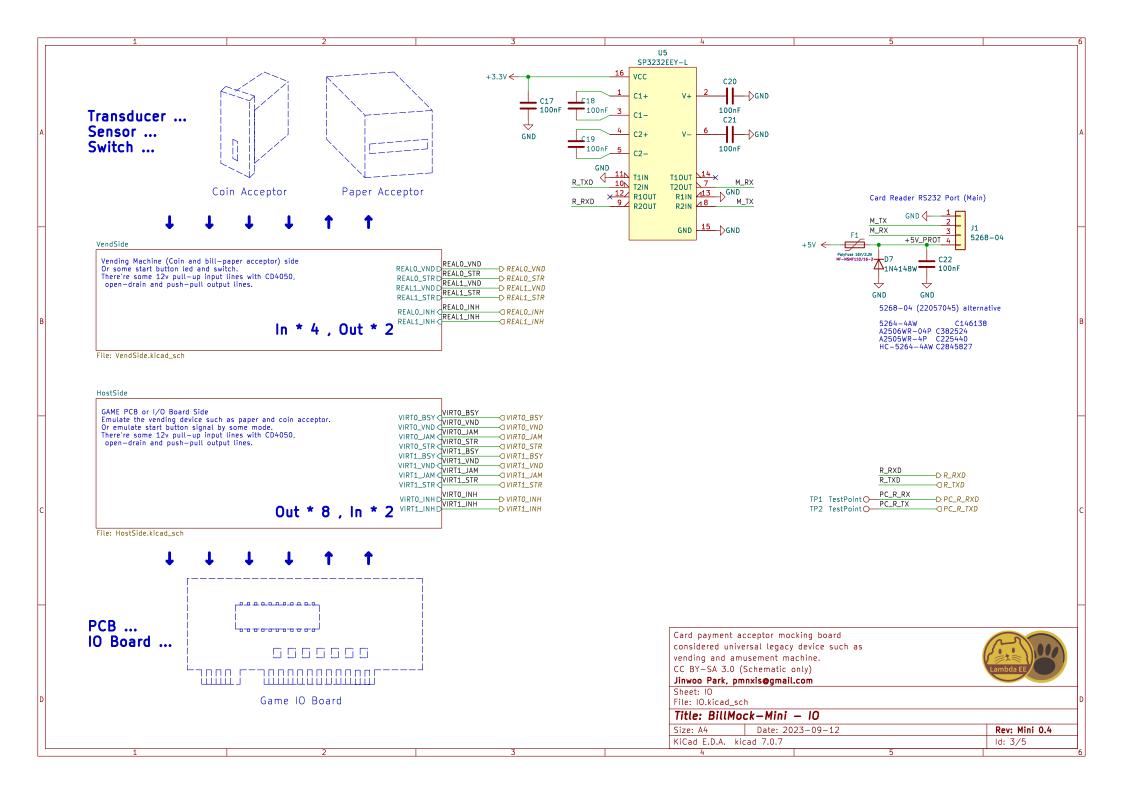


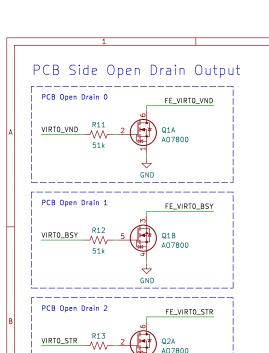
Card payment acceptor mocking board considered universal legacy device such as vending and amusement machine.
CC BY—SA 3.0 (Schematic only)

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

Sheet: Power File: Power.kicad\_sch

	Size: A4 Date: 20		3-09-12	Rev: Mini 0.4	
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_	4		5	•	_





51k

51k

PCB Open Drain 3

VIRTO\_JAM

#### 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.

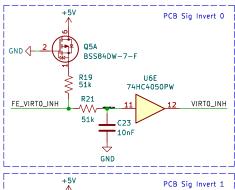
ULN2003AIDR has some issue COM line is shared. so we didn't used for seperate voltage level. Q4:7 was changed to PMV100ENEA from IRFL014PBF. Because IRFL014PBF was obsoleted JLCPCB type. JLCPCB Assembly service don't have stock or option for PMV100. DMN100 and PESD\_ is alternation for this assembly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

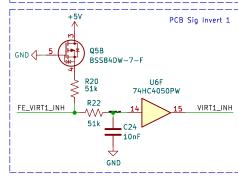
2020-07-20: DMN100 or PMV100 NMOS reduce to dual channel NMOS.
Recommend is DMN3190LDW and Alternative is DMN2004DWK Requirements : high desity, high current , Volt accept. Gate,D-S Protection.

2023-05-18:

Dual-N: A07800, 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





(Paper Acceptor, start button etc) X2012WV is (Semi)compatible part of 53015 53015-1010 FE\_VIRT1\_BSY FE\_VIRT1\_VND FE\_VIRT1\_JAM FE\_VIRT1\_STR Custom Pin -> FE\_VIRT1\_INH Custom

Emulated player 1/2 side common signal

B330 GND 53015-1010 FE\_VIRTO\_BSY FE\_VIRTO\_VND FE\_VIRTO\_JAM Custom FE VIRTO STR FE\_VIRTO\_INH Custom

+12V ←

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

VIRTO_BSY	──✓ VIRTO BSY
VIRTO_VND	VIRTO_VND
VIRTO_JAM	VIRTO_VND
VIRTO_STR	VIRTO_STR
VIRT1_BSY	
VIRT1_VND	—──□ VIRT1_BSY —─□ VIRT1_VND
VIRT1_JAM	VIRT1_JAM
VIRT1_STR	VIRT1_JAM
	O VIKIT_2IK
VIDTO INII	

-D VIRTO INH VIRT1\_INH → VIRT1\_INH

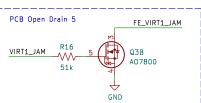
#### PCB Open Drain 4 FE\_VIRT1\_STR R15 VIRT1\_STR Q3A **-**VVV A07800 51k GND

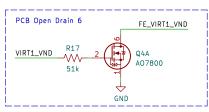
GND

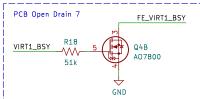
GND

FE\_VIRTO\_JAM

Q2B A07800







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: HostSide File: HostSide.kicad sch

little: l	BillMock-Mini	- HOST	Side

Size: A4	Date: 2023-09-12		Rev: Mini 0.4
KiCad E.D.A. kicad 7.0.7			ld: 4/5
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