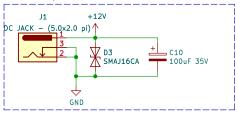
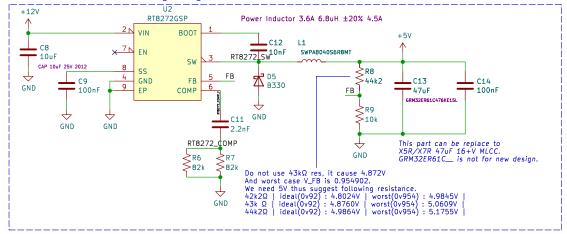


# Power Domain

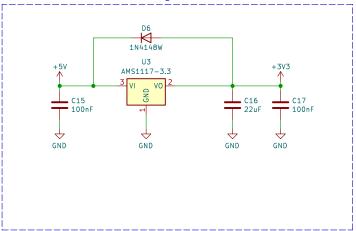
## 12V Input Jack



## 12V to 5V : Switching Regulator



## 5V to 3V3 : Linear Regulator





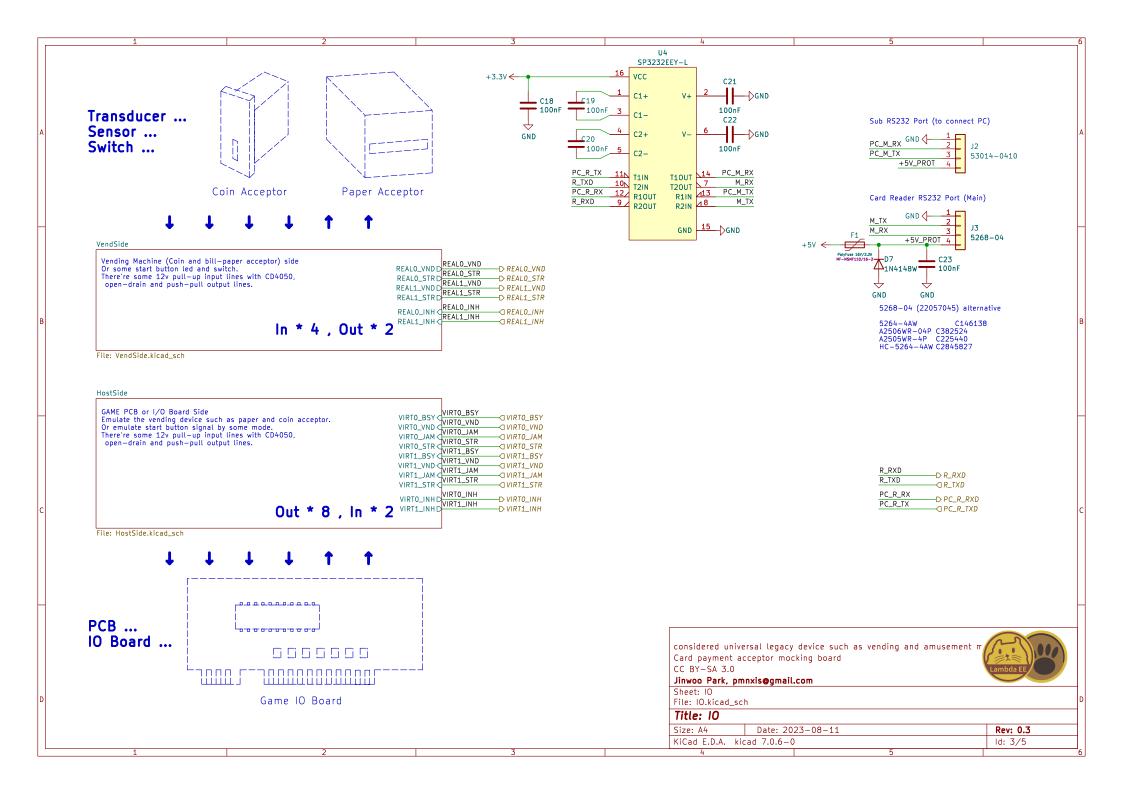
considered universal legacy device such as vending and amusement m Card payment acceptor mocking board CC BY-SA 3.0

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

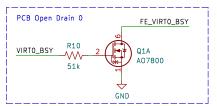
Sheet: Power File: Power.kicad\_sch

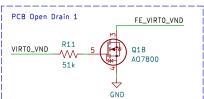
Title: Power	domain
--------------	--------

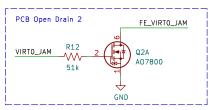
Size: A4	Date: 2023-08-11	23-08-11	
KiCad E.D.A. ki	cad 7.0.6-0		ld: 2/5
1.			

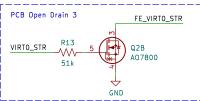


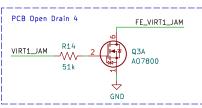


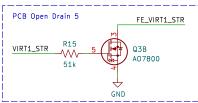


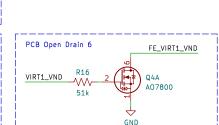


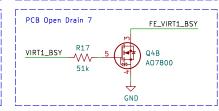












# CHANGE LOG

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.

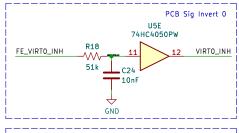
ULN2003AIDR has some issue COM line is shared, so we didn't used for seperate voltage level. Q4:7 was changed to PMV100ENEA from IRFL014PBF. Because IRFL014PBF was obsoleted JLCPCB type. JLCPCB Assembly service don't have stock or option for PMV100. DMN100 and PESD\_ is alternation for this assembly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

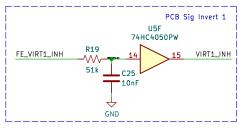
2020-07-20: DMN100 or PMV100 NMOS reduce to dual channel NMOS. Recommend is DMN3190LDW and Alternative is DMN2004DWK Requirements: high desity, high current, Volt accept. Gate,D-5 Protection.

2023-05-18:

Dual—N: AO7800, 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





#### Emulated player 1/2 side common signal (Paper Acceptor, start button etc) X2012WV is (Semi)compatible part of 53015 53014-1010 FE\_VIRT1\_BSY FE\_VIRT1\_STR\_1 FE\_VIRT1\_VND FE\_VIRTO\_STR 2/ FE\_VIRT1\_JAM Custom Pin -> FE\_VIRT1\_VND 3 FE\_VIRT1\_STR FE\_VIRTO\_VND 4A FE\_VIRT1\_INH FE\_VIRTO\_INH 54 Custom DB141R-2.54-8P Push\_In\_2.54mm\_Terminal\_141V-8P J5 53014-1010 FE\_VIRTO\_BSY FE\_VIRTO\_VND FE\_VIRTO\_JAM Custom FE VIRTO STR FE\_VIRTO\_INH Custom

VIRTO_BSY VIRTO_VND VIRTO_JAM VIRTO_STR VIRT1_BSY VIRT1_VND VIRT1_JAM VIRT1_STR	QVIRTO_BSY QVIRTO_VND QVIRTO_JAM QVIRTO_STR QVIRT1_BSY QVIRT1_JAM QVIRT1_JAM QVIRT1_JAM QVIRT1_STR
VIRTO_INH	— □ VIRTO_INH
VIRT1_INH	— □ VIRT1_INH

considered universal legacy device such as vending and amusement n Card payment acceptor mocking board CC BY-SA 3.0

### Jinwoo Park, pmnxis@gmail.com

Sheet: HostSide File: HostSide.kicad\_sch

Titl	e:	Н	ost	Si	de

 Size: A4
 Date: 2023-08-11
 Rev: 0.3

 KiCad E.D.A. kicad 7.0.6-0
 Id: 4/5

