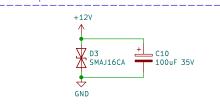
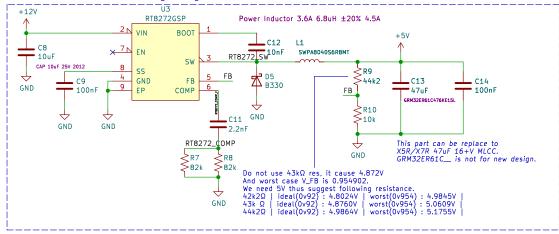


Power Domain

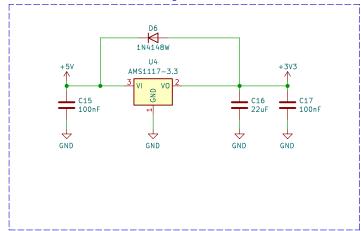
12V Input Jack

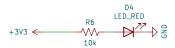


12V to 5V: Switching Regulator



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)

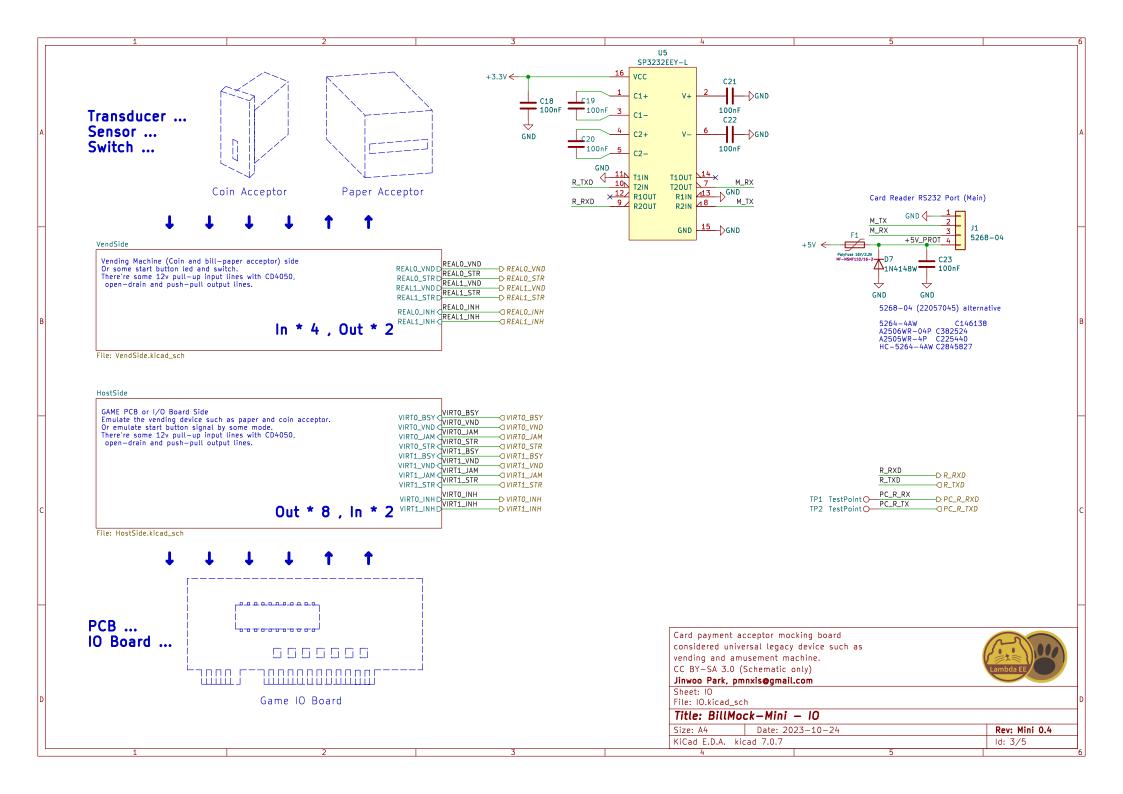
Jinwoo Park, pmnxis@gmail.com

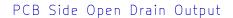
Sheet: Power File: Power.kicad_sch

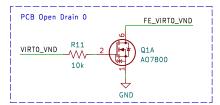
Title:	BillMock-	-Mini —	Power	domain
--------	-----------	---------	-------	--------

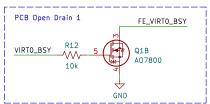
Size: A4	Date: 2023-10-24	Rev: Mini 0.4		
KiCad E.D.A. kid	cad 7.0.7	ld: 2/5		

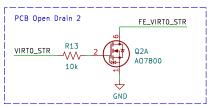
Lambda EE

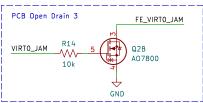


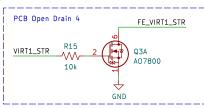


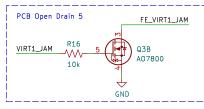


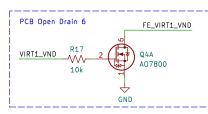


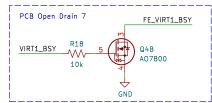












CHANGE LOG

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.

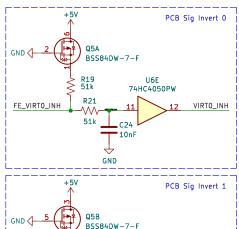
ULN2003AIDR has some issue COM line is shared. so we didn't used for seperate voltage level. Q4:7 was changed to PMV100ENEA from IRFL014PBF. Because IRFL014PBF was obsoleted JLCPCB type. JLCPCB Assembly service don't have stock or option for PMV100. DMN100 and PESD_ is alternation for this assembly system.

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: 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

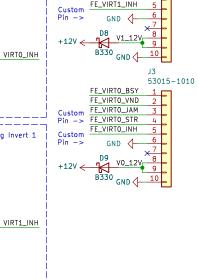


U6F

74HC4050PW

10nF

GND



FE_VIRT1_BSY

FE_VIRT1_VND

FE_VIRT1_JAM

FE_VIRT1_STR

Custom Pin ->

Emulated player 1/2 side common signal (Paper Acceptor, start button etc)

53015-1010

X2012WV is (Semi)compatible part of 53015

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

R20

51k

51k

Alternative of 53015-1010 or 20017WR-10

FE VIRT1 INH

53015-1010 Connector_X2012WR:XKB_X2012WR-10-N05N_1x10_P2.00mm_RightAngle https://www.molex.com/pdm_docs/sd/530140410_sd.pdf 53014-1010 Molex TH 53014-1010 DIP-10-2mm Local-Distributor

Connector_Extended_Molex_53015:Molex_MicroBlade_53015-1000_1x10_P2.00mm_RightAngle_Vertical https://www.molex.com/pdm_docs/sd/530140410_sd.pdf X2012WR-10-NOSN XKB Connectivity
TH
THE PROOF AND ADDRESS OF THE PROOF TH

Alt of 53014-1010 or 20017WR-10 DIP-10-2mm Local-Distributor C571305

X2012WR-10-N0SN

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



✓ VIRTO_BSY

✓ VIRTO_VND

✓ VIRTO_JAM

✓ VIRTO_STR

✓ VIRT1_BSY

✓ VIRT1_VND

✓ VIRT1_JAM

✓ VIRT1_STR

> VIRTO INH

D VIRT1_INH

VIRTO_BSY

VIRTO_VND

VIRTO_JAM

VIRTO_STR

VIRT1_BSY

VIRT1_VND

VIRT1_JAM

VIRT1_STR

VIRTO_INH

VIRT1_INH

Jinwoo Park, pmnxis@gmail.com

Sheet: HostSide File: HostSide.kicad_sch

Title: BillMock-Mini - Host Side	e
----------------------------------	---

	Size: A4	Date: 2023-10-24			Rev: Mini 0.4
	KiCad E.D.A. kicad 7.0.7				ld: 4/5
_	4			5	

