PRODUCT NAME
TP9801

TITLE
Pen Driver Application Circuit

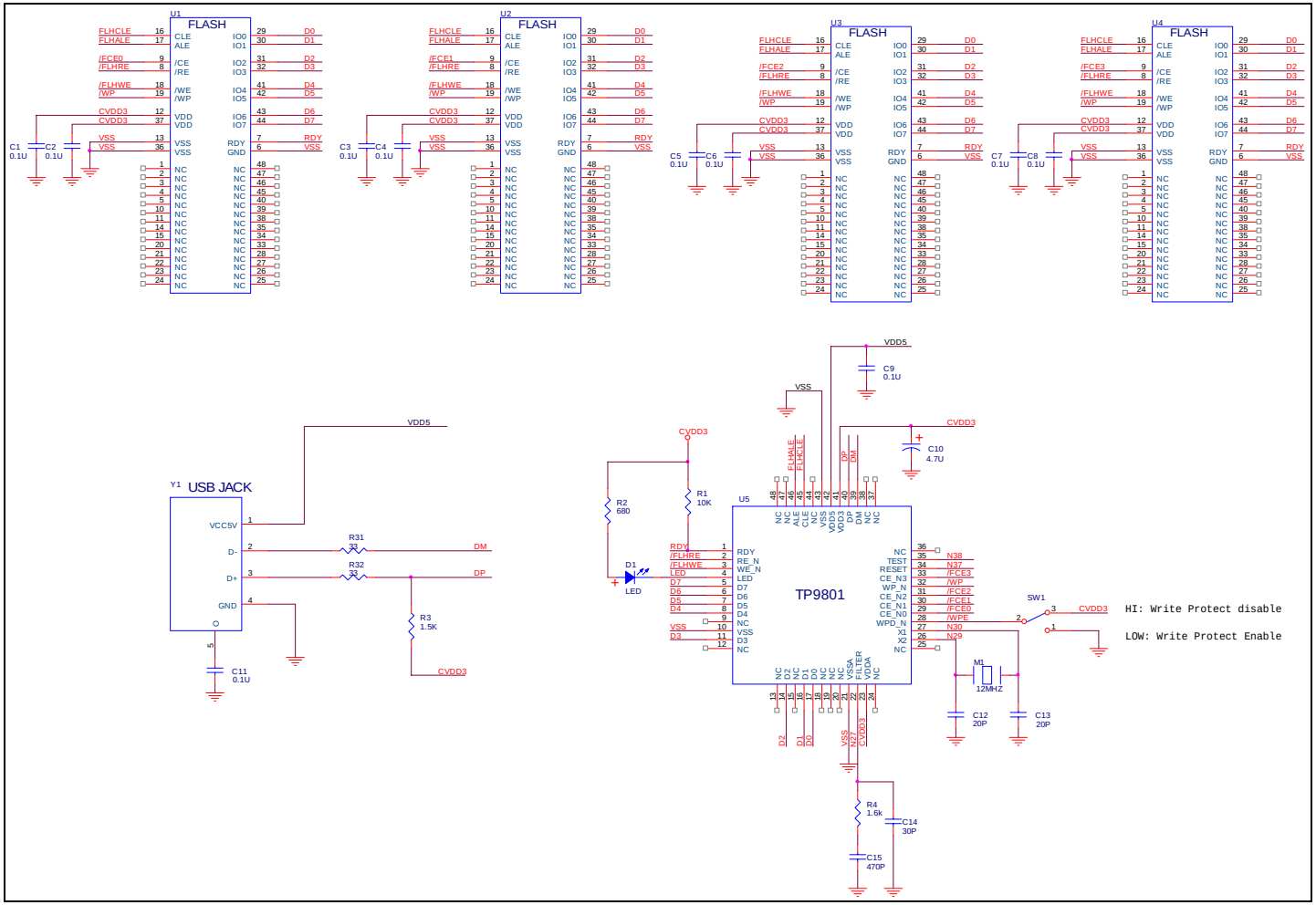
APPLICATION NOTE

1. Circuit Schematic: 如下 APPLICATION CIRCUIT 所示, 或者參考檔案 TP9801-Schematic.ZIP 中之 ORCAD 圖檔.
2. BOM LIST: 如下 TP9801 BOM LIST 中所示, 或者參考檔案 TP9801-Schematic.ZIP 中之 TP9801BOMList.xls
3. PCB Layout: 參考檔案 TP9801-Layout.ZIP 中之 Protel 圖檔.
4. Gerber File: 檔案 TP9801-Gerber.ZIP

TP9801 BOM LIST

ITEM	QTY	COMPONENT	NAME
1	10	電容/ 0.1U	C1,C2,C3, C4, C5, C6,C7, C8,C9,C11
2	1	電容/ 4.7U	C10
3	2	電容/ 20P	C13,C12
4	1	電容/ 30P	C14
5	1	電容/ 470P	C15
6	1	LED	D1
7	1	振盪器/ 12MHZ	M1
8	1	電阻/ 10K	R1
9	1	電阻/ 680	R2
10	1	電阻/ 1.5K	R3
11	1	電阻/ 1.6k	R4
12	1	SLIDE SWITCH	SW1
13	4	FLASH MEMORY	U1,U2,U3,U4
14	1	TP9801	U5
15	1	USB PLUG	Y1

TP9801 APPLICATION CIRCUIT:



使用說明:

1. flash memory 搭配數目可選擇使用 1 顆(CE_N1) 或 2 顆(CE_N1, CE_N2) 或 4 顆(CE_N1~CE_N4),
   同時使用 2 顆或 4 顆的 flash memory 搭配組合,需使用相同的 flash memory type.
2. Write Protect (SW1): 0: Write Protect Enable ; 1: Write Protect Disable.
3. 使用 TOSHIBA flash memory 需將 flash PIN(6) 接到 VSS, PIN(7) 接到 RDY.
4. 使用 SAMSUNG flash memory PIN(6) 爲 N.C.,可空接或接到 VSS, PIN(7) 接到 RDY.
5. 使用 512MB SAMSUNG flash memory (K9W4G08U1M) PIN(6) & PIN(7)須接至 RDY.
6. flash memory 若爲 528 bytes page size based ,可 format 的容量(flash total size)爲 32MB, 64MB, 128MB 三種規格; flash memory 若爲 2K bytes pages size based , 可 format 的容量(flash total size)爲 128MB, 256MB, 512MB, 1GB 四種規格.

- Supported flash type
  - Samsung
    - K9F5608U0A-YCB0, K9F5608U0B-YCB0 (32MB) (528 bytes page size)
    - K9F1208U0M-YCB0, K9F1208U0A-YCB0 (64MB) (528 bytes page size)
    - K9K1G08U0M-YCB0 (128MB) (528 bytes page size)
    - K9F1G08U0M-YCB0 (128MB) (2K bytes page size)
    - K9K2G08U0M-YCB0 (256MB) (2K bytes page size)
    - K9F2G08U0M-YCB0 (256MB) (2K bytes page size)
    - K9W4G08U1M-YCB0 (512MB) (2K bytes page size, Two K9K2G08U0M stacked)
  - Toshiba
    - TC58DVM82A1FT00 (32MB) (528 bytes page size)
    - TC58DVM92A1FT00 (64MB) (528 bytes page size)
    - TC58DVG02A1FT00 (128MB) (528 bytes page size)
    - TC58NVG0S3AFT05 (128MB) (2K bytes page size)
    - TH58NVG1S3AFT05 (256MB) (2K bytes page size)
  - ST
    - NAND256W3A (32MB) (528 bytes page size)
    - NAND512W3A (64MB) (528 bytes page size)
    - NAND1GW3A (128MB) (528 bytes page size)
  - Hynix
    - HY27US08561M (32MB) (528 bytes page size)
    - HY27US08121M (64MB) (528 bytes page size)
  - Sandisk
    - SDTNFAH-256 (32MB) (528 bytes page size)
    - SDTNFAH-512 (64MB) (528 bytes page size)
    - SDTNFBH-1024 (128MB) (528 bytes page size)

- Flash connection
  - 528 bytes page size based
    - 32MB x 1, 64MB x 1, 128MB x 1 – Flash is connected to TP9801 through CE_N[1]
    - 32MB x 2, 64MB x 2 – Flash are connected to TP9801 through CE_N[1:2]
    - 32MB x 4 – Flash are connected to TP9801 through CE_N[1:4]
  - 2K bytes pages size based
    - 128MB x 1, 256MB x1 – Flash is connected to TP9801 through CE_N[1]
    - 128MB x 2, 256MB x2 – Flash is connected to TP9801 through CE_N[1:2]
    - 128MB x 4, 256MB x4 – Flash is connected to TP9801 through CE_N[1:4]
    - 512MB(Samsung K9W4G08U1M) x1 – Flash is connected to TP9801 through CE_N[1:2]
    - 512MB(Samsung K9W4G08U1M) x2 – Flash is connected to TP9801 through CE_N[1:4]