

Audio

Audio

AUDIO1 5 1 2 3 4

BUZZER

BUZZER

PJ=3.5-365-5P

C17 22uF/6.3V/20%/X5R/C0603

R9 150R/R0402

C18 100nF/10V/20%/X5R/C0402

R11 270R/R0402

GPIO20/AUDIO

SPK1

Speaker_QMB-09B-03(1.5-5.0V,2.7kHz,F9.0mm*H5.5mm)

R7 47R/R1206

D1 1N4148W/SOD123

R8 2.2k/R0402

Q2 BC17-40(SOT23)

+3.3V

SPK

GND

Call Resistance = 16R

Current(max) = 50mA

DVI

The diagram illustrates the internal wiring of the DVI1 connector. The components and their connections are as follows:

- Resistors:**
 - R22, R23, R24, R25, R26, R27, R28, R29: 270R/R0402
 - FUSE1: NA(F5MD035-1206)
- Signal Lines:**
 - HDMI_D2+ to Pin 1
 - HDMI_D2- to Pin 2
 - HDMI_D1+ to Pin 3
 - HDMI_D1- to Pin 4
 - HDMI_D0+ to Pin 5
 - HDMI_D0- to Pin 6
 - HDMI_D0+ to Pin 7
 - HDMI_D0- to Pin 8
 - HDMI_D0+ to Pin 9
 - HDMI_D0- to Pin 10
 - HDMI_D0+ to Pin 11
 - HDMI_D0- to Pin 12
 - HDMI_D0+ to Pin 13
 - HDMI_D0- to Pin 14
 - HDMI_D0+ to Pin 15
 - HDMI_D0- to Pin 16
 - HDMI_D0+ to Pin 17
 - HDMI_D0- to Pin 18
 - HDMI_D0+ to Pin 19
- Power and Ground:**
 - +5V_USB to FUSE1
 - GND to R22, R23, R24, R25, R26, R27, R28, R29, FUSE1, and the bottom of the connector.
 - HDMI-SWM-19 to Pin 19

UEXT

+3.3V +3.3V GND +3.3V

R33 2.2k/60002 UEXT1 R34 2.2k/60002

1 2 3 4 5 6 7 8 9 10

GPIO29UART0_TX GPIO29UART0_RX
GPIO23I2C1_SCL GPIO22I2C1_SDA
GPIO24SPI1_RX(MISO) GPIO27SPI1_TX(MOSI)
GPIO26SPI1_SCK(CLK) GPIO25SPI1_CSn(CS#)

P-B-V-10-LF

SWPK SWITCH1 BUZZER

1 SW1_A0 5 SW1_B 8 BUZZER
2 SW2_A0 6 SW2_B 7 GPIO27SPI1_TX(MOSI)
3 SW3_A0 7 SW3_B 6 GPIO26SPI1_SCK(CLK)
4 SW4_A0 8 SW4_B 5 GPIO25SPI1_CSn(CS#)

DSHP04TS-S

RP2040 pin connections for the Raspberry Pi 4B. The diagram shows the connection of various pins to external components like Flash Memory, BOOTSEL, and various peripheral chips (U1, U2, U3, U4, U5, U6, U7, U8, U9, U10, U11, U12, U13, U14, U15, U16, U17, U18, U19, U20, U21, U22, U23, U24, U25, U26, U27, U28, U29, U30, U31, U32, U33, U34, U35, U36, U37, U38, U39, U40, U41, U42, U43, U44, U45, U46, U47, U48, U49, U50, U51, U52, U53, U54, U55, U56, U57, U58, U59, U60, U61, U62, U63, U64, U65, U66, U67, U68, U69, U70, U71, U72, U73, U74, U75, U76, U77, U78, U79, U80, U81, U82, U83, U84, U85, U86, U87, U88, U89, U90, U91, U92, U93, U94, U95, U96, U97, U98, U99, U100). The diagram is color-coded by function: Power (red), Ground (green), I2C (blue), SPI (orange), UART (yellow), and other peripherals (purple).

[illegible]

USB-Host (Keyboard)

USB-HOST1

1 VBUS
2 D-
3 D+
4 GND
5 DNEG

+5V_USB

USB D-
USB D+
GND

USB-A-SMT-6.3H

The schematic diagram, titled "USB-PWR1", illustrates the power and signal connections for a USB interface. The components and their connections are as follows:

- VBUS:** Connected to pin A4, A9, and A9. It is also connected to a +5V_USB source and a 5.1V/1% resistor (R12) leading to GND.
- DM1:** Connected to pin A7. It is also connected to a D_N signal.
- DN2:** Connected to pin B7.
- DP1:** Connected to pin A6. It is also connected to a D_P signal.
- DP2:** Connected to pin B6.
- CC1:** Connected to pin A5.
- CC2:** Connected to pin B5.
- SBU1:** Connected to pin AB.
- SBU2:** Connected to pin BB.
- GND:** Connected to pins B12, B1, and A12.
- SHEL1:** Connected to pin 0.
- Power Source:** A +5V_USB source is connected to the VBUS line.
- Resistors:** Two resistors, R10 and R12, are shown with a value of 5.1V/1%/R0+02.
- Signal Labels:** D_N and D_P are labeled near the DM1 and DP1 connections, respectively.
- Ground:** A GND symbol is shown at the bottom right, connected to the SBU1, SBU2, and SHEL1 lines.

[illegible]

Mounting Holes







MH1
Mounting_Hole_NPTH

MH2
Mounting_Hole_NPTH


MH3
Mounting_Hole_NPTH

MH4
Mounting_Hole_NPTH

Fiducials

	FID1 Fiducial		FID3 Fiducial		FID5 Fiducial
	FID2 Fiducial		FID4 Fiducial		FID6 Fiducial

RP2040 PGM/DBG



The diagram shows a 4-pin connector for the RP2040 PGM/DBG interface. The pins are labeled as follows:

- Pin 1: SWD1
- Pin 2: SWCLK
- Pin 3: SWDIO
- Pin 4: GND

The pins are grouped into two pairs, each labeled NA(HN1x3).