

Item	Part Number	Quantity	Link	Notes
Super Gameboy Famicom cartridge	see notes	1	search ebay	for Gameboy CPU and RAM and cartridge slot
NESPi case		1	<a href="https://a.co/d/1K0sy7a">https://a.co/d/1K0sy7a</a>	
Gana VGA TO HDMI		1	<a href="https://a.co/d/2GTq5d7">https://a.co/d/2GTq5d7</a>	
Level shifter - SMD	SN74LVC245ANSR	1	<a href="https://www.digikey.com/en/products/detail/texas-instruments/SN74LVC245ANSR/499514">https://www.digikey.com/en/products/detail/texas-instruments/SN74LVC245ANSR/499514</a>	
CRYSTAL 4.194304MHZ 18PF SMD	ABLS-4.194304MHZ-D-4-Y-T	1	<a href="https://www.digikey.com/en/products/detail/abracon-llc/ABLS-4-194304MHZ-D-4-Y-T/9997833">https://www.digikey.com/en/products/detail/abracon-llc/ABLS-4-194304MHZ-D-4-Y-T/9997833</a>	gb crystal
27pF 0603 ceramic capacitor	06035C270JAT2A	2	<a href="https://www.digikey.com/en/products/detail/kyocera-avx/06035C270JAT2A/1600123">https://www.digikey.com/en/products/detail/kyocera-avx/06035C270JAT2A/1600123</a>	for gb crystal
1uF 50V Tantalum capacitor	T491B105K050AT	2	<a href="https://www.digikey.com/en/products/detail/kemet/T491B105K050AT/3724722">https://www.digikey.com/en/products/detail/kemet/T491B105K050AT/3724722</a>	
Raspberry Pi Pico		1	<a href="https://a.co/d/cgwvpYN">https://a.co/d/cgwvpYN</a>	
4-Pin SMD 3x4x2.5mm Tactile Push Button		1	optional, search ebay	reset button for Pico
Resistor, SMD, 0603, 10K		2		pullups for gb select dpad/other
Resistor, SMD, 0603, 1K		3		vga
Resistor, SMD, 0603, 500R		3		vga
Resistor, SMD, 0603, 47R		2		vga hsync/vsync
Resistor, SMD, 0603, 180K		1		for reset button
Resistor, SMD, 0603, 510R		2		for audio
Resistor, SMD, 0603, 1M		1		for gb crystal
Pin strip / header for Pico				
Wii/NES Classic receptacle/jack 90 degree		1	<a href="https://www.aliexpress.us/item/3256804436132647.html">https://www.aliexpress.us/item/3256804436132647.html</a>	
Wire		1	<a href="https://www.amazon.com/gp/product/B09JB371PF/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&amp;psc=1">https://www.amazon.com/gp/product/B09JB371PF/ref=ppx_yo_dt_b_search_asin_title?ie=UTF8&amp;psc=1</a>	
PCB Main		1		
PCB Power distribution		1		
PCB USB (optional)		1		Optional - USB is power only - this board will break out data if you want to connect Pico USB (for programming)
PCB Wii Jack Breakout		1		
32-pin SMD GB cartridge slot (optional)		0	<a href="https://www.aliexpress.com/item/1005002492338040.html?spm=a2g0o.order_list.0.0.133e1802x61TID">https://www.aliexpress.com/item/1005002492338040.html?spm=a2g0o.order_list.0.0.133e1802x61TID</a>	Optional - only needed if not using an SGB Cartridge slot
PCB NES Controller breakout (optional)		0		Optional - only needed if not using Wii/NES Classic controller
Momentary pushbutton (optional)				Optional - if you want to add an external button to change the PICO programming mode
My Arcade GamePad Classic - Wireless (Optional)				