Hard Stuff Pico to Pi Hat v1 Pinout

40 PI Header	
3V3	5V
SDA1	5V
SCL1	GND
GPIO 4	TX
GND	RX
GPIO 17	GPIO 18
GPIO 27	GND
GPIO 22	GPIO 23
3V3	GPIO 24
MOSI	GND
MISO	GPIO 25
SCLK	CE0
GND	CE1
-	-
GPIO 5	GND
GPIO 6	GPIO 12
GPIO 13	GND
GPIO 19	GPIO 16
GPIO 26	GPIO 20
GND	GPIO 21

2x 20 pin Pico Headers				
Pi Pico L	ESP32 Mapping		Pi Pico R	
GPIO 23	GP11	VBUS	VBUS	
GPIO 24	GP12	VSYS	5V	
GND	GND	GND	GND	
SDA1	GP13	3V3 (En)	-	
SCL1	GP14	3V3 (Out)	3V3	
TX	GP15	GP10	-	
RX	GP16	GP9	GPIO 25	*GPIO 28 on the Pico*
GND	GND	GND	GND	
GPIO 6	GP17	GP8	GPIO 27	
CE1	GP18	GP7	GPIO 26	
CE0	GP33	RUN	-	
GPIO 12	GP34	GP6	GPIO 22	
GND	GND	GND	GND	
SCLK	GP35	GP5	GPIO 21	
MOSI	GP36	GP4	GPIO 20	
MISO	GP37	GP2	GPIO 19	
GPIO 13	GP38	GP10	GPIO 18	
GND	GND	GND	GND	
GPIO 4	GP39	GP41	GPIO 17	
GPIO 5	GP40	GP42	GPIO 16	