

FC E-Nail Pi GPIO

Pi Zero W

OLED Power	3V Power	1	2	5V Power	Amp/Encoder Power - 12mm, Spliced at 6mm
OLED SDA	GPIO2 SDA1 I2C	3	4	5V Power	Transformer IN
OLED SCL	GPIO3 SCL1 I2C	5	6	Ground	Transformer IN
	GPIO4	7	8	GPIO14 UART0_TXD	RS-485 RXD
OLED Ground	Ground	9	10	GPIO15 UART0_RXD	RS-485 TXD
	GPIO17	11	12	GPIO18 PCM_CLK	
	GPIO27	13	14	Ground	RS-485 Ground
Encoder Button Signal	GPIO22	15	16	GPIO23	Encoder Channel B
RS-485 Power	3V Power	17	18	GPIO24	Encoder Channel A
	GPIO10	19	20	Ground	Encoder Ground
	GPIO9	21	22	GPIO25	
	GPIO11	23	24	GPIO8 SPI0_CEO_N	
Encoder Button Ground	Ground	25	26	GPIO7 SPI0_CE1_N	
	ID_SD I2C ID EEPROM	27	28	ID_SC I2C ID EEPROM	
Button Switch Signal	GPIO5	29	30	Ground	Button Switch Ground
Button LED Signal	GPIO6	31	32	GPIO12	Amp Signal
	GPIO13	33	34	Ground	Amp Ground
	GPIO19	35	36	GPIO16	
	GPIO26	37	38	GPIO20	
Button LED Ground	Ground	39	40	GPIO21	

Wire Lengths

Button	8mm	4 wire	
OLED	13mm	4 wire	
Amp	12mm	3 wire	(join to Encoer Power at 6mm)
RS-485	9.5mm	4 wire	
Encoder	12mm	5 wire	
XLR	Ground	13nn	Encoder PINS (from right to left from back)
	T/C	15mm	1 Ground
	Neutral	13mm	2 Switch
	Power	15mm	3 Switch
			4 Channel B
			5 Channel A
Relay	+/-	13mm	6 5V
	AC IN	6mm	
	AC OUT	13mm	