

## G400S SoM Pinout

Many signals on the G400 are multiplexed to offer multiple functions on a single pin. Developers can decide on the pin functionality to be used through the provided libraries. Any pin with no name, function, or note must be left unconnected.

Pin	Name	Function	Pin	Name	Function	Pin	Name	Function
1	PD0		41	PB10	ADC11	81	PA23	SPI2 SCK
2	PD4		42		3.3 V	82	PA28	
3			43		VBAT	83 <sup>1</sup>	PA31	I2C SCL
4	PA27		44	PB7	ADC8	84		3.3 V
5	PA16	SD CMD	45	PB2		85		
6	PA8	COM4 RX	46	PC0	LCD B0	86		USBC D+
7	PA3	COM2 CTS	47	PC6	LCD G1	87		USBC D-
8	PA2	COM2 RTS	48		1.8 V	88		USBH0 D+
9	PC28	LCD HS	49	PC10	LCD G5	89		USBH0 D-
10	PC23		50	PC3	LCD B3	90		USBH1 D+
11	PC5	LCD G0	51	PC15	LCD R4	91		USBH1 D-
12	PC1	LCD B1	52	PC18	PWM0	92		
13		1.8 V	53		1.0 V	93		RESET
14			54	PC13	LCD R2	94		
15			55	PC31		95		
16		GND	56		GND	96		
17	PB3		57	PC26		97		GND
18	PB1		58	PC30	LCD CLK	98		SPI1 SCK
19			59		SPI1 MOSI	99	PA19	SD D2
20	PB18		60	PB16	ADC5	100	PA21	SPI2 MISO
21	PB8	ADC9	61	PB17	ADC6	101	PA24	LDR0
22	PB14	ADC3	62	PB9	ADC10	102	PA25	MODE
23	PB12	ADC1 TOUCH YU	63	PB4		103		1.0 V
24	PB6	ADC7	64	PC4	LCD B4	104		
25	PB15	ADC4	65	PC7	LCD G2	105		
26	PB0		66	PC8	LCD G3 COM5 TX	106	PA6	COM3 RX CAN2 RD
27	PB5		67	PC14	LCD R3	107	PA17	SD CLK
28	PC2	LCD B2	68	PC16	COM6 TX	108	PA22	SPI2 MOSI
29	PC9	LCD G4 COM5 RX	69	PC20	PWM2	109	PA26	
30	PC11	LCD R0	70	PC17	COM6 RX	110 <sup>1</sup>	PA30	I2C SDA
31	PC12	LCD R1	71	PC27	LCD VS	111	PA29	
32	PC24		72	PC29	LCD OE	112		
33	PA0	COM2 TX	73	PA5	COM3 TX CAN2 TD	113		
34	PC21	PWM3	74	PA1	COM2 RX	114	PD2	TOUCH XR
35	PC19	PWM1	75		SPI1 MISO	115	PD1	TOUCH YD
36	PC22		76	PA10	COM1 TX CAN1 TD	116	PD7	
37	PA7	COM4 TX	77	PA9	COM1 RX CAN1 RD	117	PD3	
38	PA4	LDR1	78	PA15	SD D0	118	PD5	
39	PB11	ADC0	79	PA18	SD D1	119	PD6	
40	PB13	ADC2 TOUCH XL	80	PA20	SD D3	120		GND

<sup>1</sup>Open drain requiring a 2.2 kΩ pull-up resistor