					1-10-	
H1	1 (A)	CAN bus, 3.3V, 120R, diff. low	P31U	NanoHub	A712D CANL (Bi)	Motherboard  CANL (Bi)
•••	1 (B)	3.3V LVCMOS			GPIO CPU pin 51 (Bi)	OANE (DI)
H1	2	3.3V LVCMOS			GPIO CPU pin 53 (Bi)	
H1	3	CAN bus, 3.3V, 120R, diff. high			CANH (Bi)	CANH (Bi)
H1	4					
H1	5					
H1	6					
H1	7					
H1	8					
H1	9	3.3V LVCMOS open-drain			SPI CS1 (output)	
H1	10	3.3V LVCMOS open-drain			SPI CS2 (output)	
H1	11	3.3V LVCMOS open-drain			SPI CS3 (output)	
H1	12 13	3.3V LVCMOS open-drain 3.3V LVCMOS open-drain			SPI CS4 (output) SPI CS5 (output)	
H1	14	3.3V LVCMOS open-drain			SPI CS6 (output)	
H1	15	o.ov Evolitico oport di diri			or rece (earpar)	
H1	16					
H1	17					
H1	18	3.3V LVCMOS			GPIO CPU pin 48 (Bi)	
H1	19	UART, 3.3V, 500kbaud		TX (output)	UART2 RX (input)	
H1	20	UART, 3.3V, 500kbaud		RX (input)	UART2 TX (output)	
H1	21	3.3V LVCMOS			SPI CLK (output)	
H1	22	3.3V LVCMOS			SPI MISO (input)	
H1	23	3.3V LVCMOS			SPI MOSI (output)	
H1	24	3.3V LVCMOS open-drain			SPI CS7 (output)	
H1	25					
H1	26	3.3V LVCMOS			GPIO CPU pin 47 (Bi)	
H1	27					
H1	28 29	3.3V LVCMOS			GPIO CPU pin 52 (Bi)	
H1	30	J.OV EVOIVIOU			OL O bill 25 (RI)	
H1	31					
H1	32	5V, 1A, charge	input			
H1	33	UART, 3.3V, 500kbaud		TX (output)	UART1 RX (input)	
H1	34					
H1	35	UART, 3.3V, 500kbaud		RX (input)	UART1 TX (output)	
H1	36					
H1	37					
H1	38					
H1	39					
H1	40					
	41	I2C SDA, LVCMOS (3.3V)	Bi (802R pull-up)	Bi (100k pull-up)	Bi (100k pull-up)	Bi (100k pull-up)
H1	42		D. (2225 H )	<b>5</b> . / . <b>5</b>		<b>5</b> : // <b>5</b> : /
H1	43	I2C SCL, LVCMOS (3.3V)	Bi (802R pull-up)	Bi (100k pull-up)	Bi (100k pull-up)	Bi (100k pull-up)
H1	44	100 00 40 11/04/00 (0.01/)			Di (400k m. II m)	
H1	45 46	I2C SDA2, LVCMOS (3.3V)			Bi (100k pull-up)	
H1	47 (A)	3.3V, 2A	output	VCC input option	VCC input option	VCC input option
•••	47 (B)	I2C SCL2, LVCMOS (3.3V)	Catput	voo input option	Bi (100k pull-up)	Voo input option
H1	48	3.3V, 2A	output	VCC input option	VCC input option	VCC input option
H1	49 (A)	5V, 2A	output	VCC input option	VCC input option	VCC input option
	49 (B)	3.3V LVCMOS			GPIO CPU pin 55 (Bi)	
H1	50	3.3V, 2A	output	VCC input option	VCC input option	VCC input option
	51	5V, 2A	output		VCC input option	
H1	31		output	VCC input option	VCC input option	VCC input option
H1	52	3.3V, 2A	output	VCC input option	VCC input option	VCC input option
H1 H2	52 1					
H1 H2 H2	52 1 2					
H1 H2 H2 H2	52 1 2 3					
H1 H2 H2 H2	52 1 2 3 4					
H1 H2 H2 H2 H2	52 1 2 3 4 5					
H1 H2 H2 H2 H2 H2	52 1 2 3 4					
H1 H2 H2 H2 H2 H2	52 1 2 3 4 5 6 7					
H1 H2 H2 H2 H2 H2 H2 H2 H2	52 1 2 3 4 5 6 7					
H1 H2 H2 H2 H2 H2 H2 H2 H2	52 1 2 3 4 5 6 7					
H1 H2 H2 H2 H2 H2 H2 H2 H2 H2	52 1 2 3 4 5 6 7 8					
H1 H2	52 1 2 3 4 5 6 7 8 9					
H1 H2	52 1 2 3 4 5 6 7 8 9 10					
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13					
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14					
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15					
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16					
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18					
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16					
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19					
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20					
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21					
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22					
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23					
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	3.3V, 2A  5V, 5A  5V, 5A	output	Switch 1 input Switch 1 input	VCC input option	
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	3.3V, 2A  5V, 5A  5V, 5A  3.3V, 5A	output  output  output  output  output  output	Switch 1 input Switch 0 input	VCC input option	
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	3.3V, 2A  5V, 5A  5V, 5A  3.3V, 5A  3.3V, 5A	output  output  output  output  output  output  output	Switch 1 input Switch 0 input Switch 0 input	VCC input option  VCC input option  VCC input option	VCC input option
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	3.3V, 2A  5V, 5A  5V, 5A  3.3V, 5A  3.3V, 5A  Power ground	output output output output output output output	Switch 1 input Switch 1 input Switch 0 input GND	VCC input option  VCC input option  VCC input option  GND	GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	3.3V, 2A  5V, 5A  5V, 5A  3.3V, 5A  3.3V, 5A  Power ground  Power ground	output GND	Switch 1 input Switch 0 input Switch 0 input	VCC input option  VCC input option  VCC input option	VCC input option
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	3.3V, 2A  5V, 5A  5V, 5A  5V, 5A  3.3V, 5A  3.3V, 5A  Power ground Power ground Analog ground	output output output output output output output output output GND GND GND	Switch 1 input Switch 1 input Switch 0 input GND GND	VCC input option  VCC input option  VCC input option  GND	GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	3.3V, 2A  5V, 5A  5V, 5A  3.3V, 5A  3.3V, 5A  Power ground  Power ground	output GND	Switch 1 input Switch 1 input Switch 0 input GND	VCC input option  VCC input option  VCC input option  GND	GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	3.3V, 2A  5V, 5A  5V, 5A  5V, 5A  3.3V, 5A  3.3V, 5A  Power ground Power ground Analog ground	output output output output output output output output output GND GND GND	Switch 1 input Switch 1 input Switch 0 input GND GND	VCC input option  VCC input option  VCC input option  GND	GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	3.3V, 2A  5V, 5A  5V, 5A  5V, 5A  3.3V, 5A  3.3V, 5A  Power ground Power ground Analog ground	output output output output output output output output output GND GND GND	Switch 1 input Switch 1 input Switch 0 input GND GND	VCC input option  VCC input option  VCC input option  GND	GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	3.3V, 2A  5V, 5A  5V, 5A  5V, 5A  3.3V, 5A  3.3V, 5A  Power ground Power ground Analog ground	output output output output output output output output output GND GND GND	Switch 1 input Switch 1 input Switch 0 input GND GND	VCC input option  VCC input option  VCC input option  GND	GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35	3.3V, 2A  5V, 5A  5V, 5A  5V, 5A  3.3V, 5A  9 Ower ground  Power ground  Power ground  Power ground  Power ground	output output output output output GND GND GND GND GND	Switch 1 input Switch 1 input Switch 0 input GND GND GND	VCC input option  VCC input option  VCC input option  GND	GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	3.3V, 2A  5V, 5A  5V, 5A  5V, 5A  3.3V, 5A  9 Ower ground  Power ground  Power ground  Power ground  Power ground	output output output output output GND GND GND GND GND	Switch 1 input Switch 1 input Switch 0 input GND GND GND	VCC input option  VCC input option  VCC input option  GND	GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	3.3V, 2A  Sty, 5A  5V, 5A  5V, 5A  3.3V, 5A  Analog ground  Power ground  Power ground  Power ground  Power ground  Power ground	output output output output output output GND GND GND GND GND GND GND	Switch 1 input Switch 1 input Switch 0 input GND GND TX (output)	VCC input option  VCC input option  VCC input option  GND	GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	3.3V, 2A  Sty, 5A  5V, 5A  5V, 5A  3.3V, 5A  Analog ground  Power ground  Power ground  Power ground  Power ground  Power ground	output output output output output output GND GND GND GND GND GND GND	Switch 1 input Switch 1 input Switch 0 input GND GND TX (output)	VCC input option  VCC input option  VCC input option  GND	GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39	3.3V, 2A  Sty, 5A  5V, 5A  5V, 5A  3.3V, 5A  Analog ground  Power ground  Power ground  Power ground  Power ground  Power ground	output output output output output output GND GND GND GND GND GND GND	Switch 1 input Switch 1 input Switch 0 input GND GND TX (output)	VCC input option  VCC input option  VCC input option  GND	GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	3.3V, 2A  Sty, 5A  5V, 5A  5V, 5A  3.3V, 5A  Analog ground  Power ground  Power ground  Power ground  Power ground  Power ground	output output output output output output GND GND GND GND GND GND GND	Switch 1 input Switch 1 input Switch 0 input GND GND TX (output)	VCC input option  VCC input option  VCC input option  GND	GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	3.3V, 2A  Sty, 5A  5V, 5A  5V, 5A  3.3V, 5A  Analog ground  Power ground  Power ground  Power ground  Power ground  Power ground	output output output output output output GND GND GND GND GND GND GND	Switch 1 input Switch 1 input Switch 0 input GND GND TX (output)	VCC input option  VCC input option  VCC input option  GND	GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	3.3V, 2A  3.3V, 2A  5V, 5A  5V, 5A  5V, 5A  3.3V, 5A  Power ground Power ground Power ground UART, 3.3V, 500kbaud  UART, 3.3V, 500kbaud	output output output output output GND GND GND GND GND TX (output)	Switch 1 input Switch 1 input Switch 0 input GND GND TX (output)  RX (input)	VCC input option  VCC input option  VCC input option  GND	GND GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	3.3V, 2A  3.3V, 2A  3.3V, 2A  3.3V, 5A  5V, 5A  5V, 5A  3.3V, 5A  9ower ground Power ground Power ground Power ground UART, 3.3V, 500kbaud  UART, 3.3V, 500kbaud	output output output output output GND GND GND GND GND GND TX (output)	Switch 1 input Switch 1 input Switch 0 input GND GND TX (output)  RX (input)	VCC input option  VCC input option  VCC input option  GND	GND GND GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46	3.3V, 2A  3.3V, 2A  5V, 5A  5V, 5A  5V, 5A  3.3V, 5A  Power ground Power ground Power ground UART, 3.3V, 500kbaud  UART, 3.3V, 500kbaud	output output output output output GND GND GND GND GND TX (output)	Switch 1 input Switch 1 input Switch 0 input GND GND TX (output)  RX (input)	VCC input option  VCC input option  VCC input option  GND	GND GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	3.3V, 2A  3.3V, 2A  3.3V, 2A  3.3V, 5A  5V, 5A  5V, 5A  3.3V, 5A  9ower ground Power ground Power ground Power ground UART, 3.3V, 500kbaud  UART, 3.3V, 500kbaud	output output output output output GND GND GND GND GND GND TX (output)	Switch 1 input Switch 1 input Switch 0 input GND GND TX (output)  RX (input)	VCC input option  VCC input option  VCC input option  GND	GND GND GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	3.3V, 2A  3.3V, 2A  3.3V, 2A  3.3V, 5A  5V, 5A  5V, 5A  3.3V, 5A  9ower ground Power ground Power ground Power ground UART, 3.3V, 500kbaud  UART, 3.3V, 500kbaud	output output output output output GND GND GND GND GND GND TX (output)	Switch 1 input Switch 1 input Switch 0 input GND GND TX (output)  RX (input)	VCC input option  VCC input option  VCC input option  GND	GND GND GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	3.3V, 2A  3.3V, 2A  5V, 5A  5V, 5A  5V, 5A  3.3V, 5A  Power ground Power ground Analog ground Power ground UART, 3.3V, 500kbaud  UART, 3.3V, 500kbaud  Battery voltage (protected < 10A) Battery voltage (protected < 10A)	output output output output output GND GND GND GND GND GND TX (output)	Switch 1 input Switch 1 input Switch 0 input GND GND TX (output)  RX (input)	VCC input option  VCC input option  VCC input option  GND  GND	GND GND GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	3.3V, 2A  3.3V, 2A  3.3V, 2A  3.3V, 5A  5V, 5A  5V, 5A  3.3V, 5A  9ower ground Power ground Power ground Power ground UART, 3.3V, 500kbaud  UART, 3.3V, 500kbaud	output output output output output GND GND GND GND GND GND TX (output)	Switch 1 input Switch 1 input Switch 0 input GND GND TX (output)  RX (input)	VCC input option  VCC input option  VCC input option  GND	GND GND GND GND
H1 H2	52 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	3.3V, 2A  3.3V, 2A  5V, 5A  5V, 5A  5V, 5A  3.3V, 5A  Power ground Power ground Analog ground Power ground UART, 3.3V, 500kbaud  UART, 3.3V, 500kbaud  Battery voltage (protected < 10A) Battery voltage (protected < 10A)	output output output output output GND GND GND GND GND GND TX (output)	Switch 1 input Switch 1 input Switch 0 input GND GND TX (output)  RX (input)	VCC input option  VCC input option  VCC input option  GND  GND	GND GND GND GND