BOM Autonomous Platform Generation 4

TOTAL PRICE SEK: 16139,3

Part Name	Quantity	Area of Use	Price (SEK)
Generic ECU base Components			
Quantity inside brackets are required for ONE ECU			
LM2596 DC-DC converter	3(2)	Power components on AP4. In voltage 3.2-46 Output voltage 1.25 - 30 3A	110
XT60 Male	1	Connecting power to various components on autonomous platform. Max 60 Amp. Package of 20	209
XT60 Female	1	Connecting power to various components on autonomous platform. Max 60 Amp- Package of 20.	199
XT60 splitter	(1)5	Parallell wired M-M to M Y connector for XT60 contact. Enables one to parallell wire new components on platform	550
Jumper wire F-F	6	Jumper wires bradboard, Female to Female, pack ofo 10	72
Jumper wire M-M	6	Jumper wire breadboard, Male to Male, pack of 10	78
Jumper wire M-F	6	jumper wire breaboard, Male to Female, pack of 10	78
DB9 BREAKOUT BOARD Male	9	HW Node standardised DB 9 can bus connector	596
STM32 bluepill		Ersätta dem stm32 bluepillsen vi tagit från infotivs inventarier OBS köp 5 packet	490
MCP2515 can-bus modul	5	Ersätta dem mcp2515 korten vi tagit från infotiv	151
Flätad kabel 4 x 0.14 mm²	1	Ihophäftade kablar, gör de mer neat när man drar kablar inuti HW noden. 10 Meter	89
GPIO-staplingslist 2x20	6	Connect sensors to HW Node	222
Logic Level Converter	5	Converts 5v logic levels to 3.3v logic level Used to interface stm32 bluepill (3v) to 5V CAN module	160
Axial Fan DC 40x40x10mm 12V	4	Cool down each ECU	228
LED röd	25	Show ECU power status	42,25
LED grön	25	Show node software status	42,25
Automotive grad fuse	5	Blow fuse if ftoo much power is drawn from battery	165
Fuse Holder	5	Connects fuse to battery circuit	125
ST-link v2		Program stm32f103c8t6 Bluepill microcontroller	
Jumping wire crimping kit with	1	Kit med crimp housings och hankontakter (inte hittat hankontakter på infotiv?)	112
SPCU Components			
Digital to Analog Converter MCP4725	2	Circuit to send analog voltages to gokart pedals	120
Sabertooth 25x2 Motor driver	1	Drives the dc-dc motor	1300