BOM Autonomous Platform Generation 4

TOTAL PRICE SEK: **16139,3**

Part Name	Quantity	Area of Use	Price (SEK)
CENTERAL MASTER COMPUTING UNIT			
Raspberry Pi 4 Starter Kit 4 GB	1	Rasberry Pi 4b for Low Level Hardware interface	1890
LM2596 DC-DC converter	1	Power components on AP4. In voltage 3.2-46 Output voltage 1.25 - 30 3A	25
DB9 BREAKOUT BOARD Male	1	HW Node standardised DB 9 can bus connector	66
DIR-842-V2 Wifi Router	1	Wifi router / switch with 1000 MB/s ports	499
RS485 CAN HAT Raspberry Pi	1	Prebuilt CAN shield for raspberry Pi	203
Raspberry Pi 4 7 mm heatsink	1	Low profile raspberry pi cooling heatsink and fan.	120
Axial Fan DC 40x40x10mm 12V	1	Cool Down hardware interface	57
Xbox controller	1	Wireless controller and USB reciever for remote control of ap4	899
7inch IPS Capacitive Touch Screen 1024x600 Resolution LCD Display	1	Display for hardware interface raspberry Pi 4, System monitoring whilst running platform	900
Power Module			
XT60 Male	1	Connecting power to various components on autonomous platform. Max 60 Amp.	21
XT60 Female	2	Connecting power to various components on autonomous platform.	40
Current ant voltage reading sensors	1	Possibility to measure voltage of AP4 and current during runtime programatically	120
Emergency stop	2	Emergency stop if something unexpected happens, breaks power to all components except ninebot segway	274,52
Led Acid Battery	1	12 V, 30 Ah	799
Battery Charger	1	Led Acid Battery Charger IP68, 12 V, 8 A	649
Automotive grad fuse	1	Blow fuse if ftoo much power is drawn from battery	25
Fuse Holder	1	Connects fuse to battery circuit	33
C14 Contact	1	Intag, C14, 250V, Schurter, till batterimodulen	126
Din rail mounted PSU	1	90% Efficiency, 12V, 10A, 120W	875
Fuse connector for C14 outlet	1		42