

Bill of Materials: robot.fzz

/Users/benjamin/Downloads/robot.fzz

Thursday, January 30 2025, 09:30:16

Assembly List

Label	MN (manufacturer number)	MPN (manufacturer part number)	Part Type	Properties
Controller 1			IC	chip label IC; editable pin labels false; hole size 1.0mm,0.508mm; package DIP (Dual Inline) [THT]; pin spacing 300mil; pins 8; variant variant 1
Controller 2			IC	chip label IC; editable pin labels false; hole size 1.0mm,0.508mm; package DIP (Dual Inline) [THT]; pin spacing 300mil; pins 8; variant variant 1
Controller 3			IC	chip label IC; editable pin labels false; hole size 1.0mm,0.508mm; package DIP (Dual Inline) [THT]; pin spacing 300mil; pins 8; variant variant 1
Controller 4			IC	chip label IC; editable pin labels false; hole size 1.0mm,0.508mm; package DIP (Dual Inline) [THT]; pin spacing 300mil; pins 8; variant variant 1
J1		Generic female header - 2 pins		form ♀ (female); hole size 1.0mm,0.508mm; package THT; pin spacing 0.1in (2.54mm); pins 2; row single
M1		DC Motor		inductance 5u; resistace 1.5; voltage (max) 6V; voltage (min) 3V
M2		DC Motor		inductance 5u; resistace 1.5; voltage (max) 6V; voltage (min) 3V
M3		DC Motor		inductance 5u; resistace 1.5; voltage (max) 6V; voltage (min) 3V
M4		DC Motor		inductance 5u; resistace 1.5; voltage (max) 6V; voltage (min) 3V
Main Controller		roboRIO		editable pin labels false; variant variant 1
Mod1		VRM		chip label VRM; editable pin labels false; variant variant 1
Power Distribution Panel		PDP		editable pin labels false; variant variant 1
VEX Battery		LIPO-2000mAh		internal resistance 0.1Ω; package lipo-2000; variant 2000mAh; voltage 3.7V
WiFi AP		Rounter OpenMesh		editable pin labels false; variant variant 1

Shopping List

Amount	MN (manufacturer number)	MPN (manufacturer part number)	Part Type	Properties
4			IC	chip label IC; editable pin labels false; hole size 1.0mm,0.508mm; package DIP (Dual Inline) [THT]; pin spacing 300mil; pins 8; variant variant 1
1		Generic female header - 2 pins		form ♀ (female); hole size 1.0mm,0.508mm; package THT; pin spacing 0.1in (2.54mm); pins 2; row single
4		DC Motor		inductance 5u; resistace 1.5; voltage (max) 6V; voltage (min) 3V
1		roboRIO		editable pin labels false; variant variant 1
1		VRM		chip label VRM; editable pin labels false; variant variant 1
1		PDP		editable pin labels false; variant variant 1
1		LIPO-2000mAh		internal resistance 0.1Ω; package lipo-2000; variant 2000mAh; voltage 3.7V
1		Rounter OpenMesh		editable pin labels false; variant variant 1