

**TARS MK4 TELEM**

Listing these per board. Then will multiply by # of boards and order that quantity

Part Number	Part Link	Unit Price	Quantity	Shipping Cost	Total Cost	Distributor	Comments	Datasheet	Part Description
RFM96W-433S2	<a href="https://www.ti.com">https://www.ti.com</a>	\$14.00	1		\$14.00	TME	TELEM LoRa Module	<a href="https://www.hq">https://www.hq</a>	Module: transceiver
734120114	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$1.39	1		\$1.39	Digikey	TELEM LoRa Connector	<a href="https://www.molex.com">https://www.molex.com</a>	Molex u.FI Coaxial Connector
MAX-M10S	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$21.00	1		\$21.00	Digikey	TELEM GPS	<a href="https://content.digikey.com">https://content.digikey.com</a>	GNSS, TCXO, LNA, SAW
734120114	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$1.39	1		\$1.39	Digikey	TELEM GPS Connector	<a href="https://www.molex.com">https://www.molex.com</a>	Molex u.FI Coaxial Connector
B404X	<a href="https://store.fairchildsemi.com">https://store.fairchildsemi.com</a>	\$59.81	1		\$59.81	Particle	TELEM B404X LTE Module	<a href="https://docs.particle.com">https://docs.particle.com</a>	B SoM LTE CAT-M1 (NorAm) with EtherSIM
PARANTC41EA	<a href="https://store.fairchildsemi.com">https://store.fairchildsemi.com</a>	\$8.59	1		\$8.59	Particle	TELEM B404X LTE Antenna	<a href="https://docs.particle.com">https://docs.particle.com</a>	Wide band LTE-CAT M1 cell antenna
473460001	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$1.51	1		\$1.51	Digikey	TELEM B404X MicroUSB Receptacle	<a href="https://www.molex.com">https://www.molex.com</a>	CONN RCPT USB2.0 MICRO B SMD R/A
USBLC6-2P6	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.62	1		\$0.62	Digikey	TELEM B404X Diode	<a href="https://www.st.com">https://www.st.com</a>	TVS DIODE 5.25VWM 17VC SOT666
FSMSM	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.32	1		\$0.32	Digikey	TELEM B404X Mode Button	<a href="https://www.te.com">https://www.te.com</a>	SWITCH TACTILE SPST-NO 0.05A 24V
FSMSM	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.32	1		\$0.32	Digikey	TELEM B404X Reset Button	<a href="https://www.te.com">https://www.te.com</a>	SWITCH TACTILE SPST-NO 0.05A 24V
CLMVC-FKA-CL1D1L71BB7C3C3	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.23	1		\$0.23	Digikey	TELEM B404X RGB LED	<a href="https://assets.coolled.com">https://assets.coolled.com</a>	LED RGB CLEAR 4PLCC SMD
473460001	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$1.51	1		\$1.51	Digikey	TELEM ESP32 MicroUSB Receptacle	<a href="https://www.molex.com">https://www.molex.com</a>	CONN RCPT USB2.0 MICRO B SMD R/A
USBLC6-2P6	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.62	1		\$0.62	Digikey	TELEM ESP32 Diode	<a href="https://www.st.com">https://www.st.com</a>	TVS DIODE 5.25VWM 17VC SOT666
ESP32-S3-WROOM-1U-N16R8	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$4.29	1		\$4.29	Digikey	TELEM ESP32 MCU	<a href="https://www.espressosystems.com">https://www.espressosystems.com</a>	SMD MODULE, ESP32-S3R8
TPS564247DRLR	<a href="https://www.ti.com">https://www.ti.com</a>	\$1.29	1		\$1.29	Mouser	TELEM 3.7V Voltage Regulators	<a href="https://www.ti.com">https://www.ti.com</a>	Switching Voltage Regulators 3-V to 16-V IC
74438356018	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$1.94	1		\$1.94	Digikey	TELEM 3.7V Voltage Regulators	<a href="https://www.we-online.com">https://www.we-online.com</a>	FIXED IND 1.8UH 4.6A 30 MOHM SMD
PTZTFTE255.1B	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.61	1		\$0.61	Digikey	PMB Voltage Regulator Diodes	<a href="https://fscdn.rohm.com">https://fscdn.rohm.com</a>	1W 5.1V, HIGH POWER ZE
FSMSM	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.32	1		\$0.32	Digikey	TELEM ESP32 Reset Button	<a href="https://www.te.com">https://www.te.com</a>	SWITCH TACTILE SPST-NO 0.05A 24V
FSMSM	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.32	1		\$0.32	Digikey	TELEM ESP32 Boot Option Button	<a href="https://www.te.com">https://www.te.com</a>	SWITCH TACTILE SPST-NO 0.05A 24V
AT-0927-TT-6-R	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.86	1		\$0.86	Digikey	TELEM Buzzer	<a href="https://www.digchip.com">https://www.digchip.com</a>	BUZZER MAGNETIC 3V 9MM TH
2091680401	<a href="https://www.molex.com">https://www.molex.com</a>	\$6.69	2		\$13.38	Molex	PMB Receptacle	<a href="https://www.molex.com">https://www.molex.com</a>	B2B Receptacle
536270474	<a href="https://www.molex.com">https://www.molex.com</a>	\$5.70	2		\$11.40	Molex	PMB Headers	<a href="https://www.molex.com">https://www.molex.com</a>	B2B Header
PTZTFTE255.1B	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.61	1		\$0.61	Digikey	Zener Diode for Regulators	<a href="https://fscdn.rohm.com">https://fscdn.rohm.com</a>	Zener Diode
CL21X106KPCLRNC	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.22	3		\$0.66	Digikey	Capacitor		10uF Capacitor
CL21A226KPCLRNC	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.35	2		\$0.70	Digikey	Capacitor		22 uF Capacitor
0805ZC104KAT2A	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.27	4		\$1.08	Digikey	Capacitor		0.1uF Capacitor
CL21A226KPCLRNC	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.35	1		\$0.35	Digikey	Capacitor		22uF Capacitor
CL21B105KAFNNNE	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.10	1		\$0.10	Digikey	Capacitor		1uF Capacitor
ERJ-PB6D1001V	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.28	3		\$0.84	Digikey	Resistor		1K Resistor
RT0805BRE079KL	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.43	2		\$0.86	Digikey	Resistor		9K Resistor
RC0805JR-07200KL	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.10	1		\$0.10	Digikey	Resistor		200k Resistor
ERA-6AEB104V	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.36	1		\$0.36	Digikey	Resistor		100k Resistor
ERJ-PB6B3002V	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.40	2		\$0.80	Digikey	Resistor		30k Resistor
RK73H2ATTD1543F	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.10	1		\$0.10	Digikey	Resistor		155k Resistor
ERA-6AEB203V	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.36	1		\$0.36	Digikey	Resistor		20k Resistor
RC0805JR-0710KL	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.10	1		\$0.10	Digikey	Resistor		10K Resistor
RC0805JR-07470RL	<a href="https://www.digikey.com">https://www.digikey.com</a>	\$0.10	4		\$0.40	Digikey	Resistor		470 Resistor
	<a href="https://www.aliexpress.com">https://www.aliexpress.com</a>	\$20.98	1		\$20.98				Nagoya Antenna 771
	<a href="https://store.fairchildsemi.com">https://store.fairchildsemi.com</a>	\$8.59	1		\$8.59				LTE-CAT M1 cell antenna