me Part Number PIC24FJ64GA702 TC74A4-3.3VCTTR ESP32 1597-114090046-ND TMD26721 HDC3022 E power rail below. Try to minicar rail voltages if needed. me Part Number 1597-114090046-ND	Supply Voltage Range $2V \sim 3.6V$ $2.7V \sim 5.5V$ $+1.8 - 3.3V$ $6 \sim 12VDDC$ $2.6V \sim 3.6V$ $1.6V \sim 5.5V$	# 1 1 1	Absolute Maximum 200 0.2 350 300 1 -1 1 21.95 s in the design. Absolute	Total Current (mA) 200 0.2 350 300	Unit mA mA mA mA
me Part Number PIC24FJ64GA702 TC74A4-3.3VCTTR ESP32 1597-114090046-ND TMD26721 HDC3022 E power rail below. Try to miniter rail voltages if needed.	Supply Voltage Range 2V ~ 3.6V 2.7V ~ 5.5V +1.8 - 3.3V 6 ~ 12VDDC 2.6V ~ 3.6V 1.6V ~ 5.5V	# 1 1 1 1	Absolute Maximum 200 0.2 350 300 1 -1 1 21.95 s in the design. Absolute	Total Current (mA) 200 0.2 350 300 20	Unit mA mA mA mA
me Part Number PIC24FJ64GA702 TC74A4-3.3VCTTR ESP32 1597-114090046-ND TMD26721 HDC3022 E power rail below. Try to miniter rail voltages if needed.	Supply Voltage Range 2V ~ 3.6V 2.7V ~ 5.5V +1.8 - 3.3V 6 ~ 12VDDC 2.6V ~ 3.6V 1.6V ~ 5.5V	# 1 1 1 1	Absolute Maximum 200 0.2 350 300 1 -1 1 21.95 s in the design. Absolute	Total Current (mA) 200 0.2 350 300 20	Unit mA mA mA mA
me Part Number PIC24FJ64GA702 TC74A4-3.3VCTTR ESP32 1597-114090046-ND TMD26721 HDC3022 E power rail below. Try to miniter rail voltages if needed. me Part Number	Supply Voltage Range 2V ~ 3.6V 2.7V ~ 5.5V +1.8 - 3.3V 6 ~ 12VDDC 2.6V ~ 3.6V 1.6V ~ 5.5V	# 1 1 1 1	Absolute Maximum 200 0.2 350 300 1 -1 1 21.95 s in the design. Absolute	Total Current (mA) 200 0.2 350 300 20	Unit mA mA mA mA
me Part Number PIC24FJ64GA702 TC74A4-3.3VCTTR ESP32 1597-114090046-ND TMD26721 HDC3022 E power rail below. Try to miniter rail voltages if needed. me Part Number	Supply Voltage Range 2V ~ 3.6V 2.7V ~ 5.5V +1.8 - 3.3V 6 ~ 12VDDC 2.6V ~ 3.6V 1.6V ~ 5.5V	# 1 1 1 1	Absolute Maximum 200 0.2 350 300 1 -1 1 21.95 s in the design. Absolute	Total Current (mA) 200 0.2 350 300 20	Unit mA mA mA mA
me Part Number PIC24FJ64GA702 TC74A4-3.3VCTTR ESP32 1597-114090046-ND TMD26721 HDC3022 E power rail below. Try to miniter rail voltages if needed. me Part Number	Supply Voltage Range 2V ~ 3.6V 2.7V ~ 5.5V +1.8 - 3.3V 6 ~ 12VDDC 2.6V ~ 3.6V 1.6V ~ 5.5V	# 1 1 1 1	Absolute Maximum 200 0.2 350 300 1 -1 1 21.95 s in the design. Absolute	Total Current (mA) 200 0.2 350 300 20	Unit mA mA mA mA
PIC24FJ64GA702 TC74A4-3.3VCTTR ESP32 1597-114090046-ND TMD26721 HDC3022 E power rail below. Try to miniter rail voltages if needed. me Part Number	Voltage Range $2V \sim 3.6V$ $2.7V \sim 5.5V$ $+1.8 - 3.3V$ $6 \sim 12VDDC$ $2.6V \sim 3.6V$ $1.6V \sim 5.5V$ mize the number of difference of the number of	1 1 1 1	Maximum 200 200 0.2 350 300 1 -1 1 21.95 s in the design. Absolute	Current (mA) 200 0.2 350 300 20	mA mA mA mA
PIC24FJ64GA702 TC74A4-3.3VCTTR ESP32 1597-114090046-ND TMD26721 HDC3022 E power rail below. Try to miniter rail voltages if needed. me Part Number	2V ~ 3.6V 2.7V ~ 5.5V +1.8 - 3.3V 6 ~ 12VDDC 2.6V ~ 3.6V 1.6V ~ 5.5V mize the number of difference of the number of the nu	1 1 1 1	200 0.2 350 300 1 -1 1 21.95 s in the design. Absolute	200 0.2 350 300 20	mA mA mA mA
TC74A4-3.3VCTTR ESP32 1597-114090046-ND TMD26721 HDC3022 E power rail below. Try to miniter rail voltages if needed. me Part Number	2.7V ~ 5.5V +1.8 - 3.3V 6 ~ 12VDDC 2.6V ~ 3.6V 1.6V ~ 5.5V mize the number of difference of the number of the numb	1 1 1 ent power rail	0.2 350 300 1 -1 1 21.95 s in the design.	0.2 350 300 20	mA mA mA
ESP32 1597-114090046-ND TMD26721 HDC3022 E power rail below. Try to miniter rail voltages if needed. me Part Number	+1.8 - 3.3V 6 ~ 12VDDC 2.6V ~ 3.6V 1.6V ~ 5.5V mize the number of difference of the Number of the N	1 1 ent power rail	350 300 1 -1 1 21.95 s in the design.	350 300 20	mA mA mA
1597-114090046-ND TMD26721 HDC3022 E power rail below. Try to minister rail voltages if needed. me Part Number	6 ~ 12VDDC 2.6V ~ 3.6V 1.6V ~ 5.5V mize the number of difference of the supply Voltage Range	l ent power rail	300 1 -1 1 21.95 s in the design. Absolute	300 20	mA mA
TMD26721 HDC3022 E power rail below. Try to miniter rail voltages if needed. me Part Number	2.6V ~ 3.6V 1.6V ~ 5.5V mize the number of difference of the supply voltage Range	ent power rail	1 -1 1 21.95 s in the design.	20	mA
HDC3022 E power rail below. Try to miniter rail voltages if needed. me Part Number	1.6V ~ 5.5V mize the number of difference Supply Voltage Range	<mark>ent power rail</mark>	21.95 s in the design. Absolute		
E power rail below. Try to minical rail voltages if needed. me Part Number	Supply Voltage Range	ent power rail	s in the design. Absolute	91.89	mA
er rail voltages if needed. me Part Number	Supply Voltage Range		Absolute		
er rail voltages if needed. me Part Number	Supply Voltage Range		Absolute		
	Voltage Range	#			
		#	Maximum	Total Current	TI **
159/-114090046-ND	6 ~ 12VDDC		Current (mA)	(mA)	Unit
		1	300		mA
					mA
			Subtotal		mA
			Safety Margin	25%	
	Total C	urrent Requir	ea on +12V Rail	375	mA
I M2575T	±4.7537 4037	1	1000	1000	m 4
LM25/51					
		urrent Availal			IIIA
me Part Number	Voltage	#	Maximum	Current	Unit
			` /	, ,	
TC74A4-3.3VCTTR		1			mA
					mA
1111020721	2.0 (3.0 (
			Subtotal	642.09	mA
			Safety Margin	25%	
	Total Ci	ırrent Require		802.6125	mA
LM2575T	+4.75V - 40V	1	1000	1000	mA
	Total Remaining (Current Availa	ble on 3.3V Rail	197.3875	mA
	ESP32 HDC3022 TMD26721 LM2575T	LM2575T	LM2575T	Supply Absolute Maximum Current Available on +12V Rail	LM2575T

Notes

External Supply Voltage should be determined by the dropout voltage for highest-voltage regulator (e.g., +14V for a +12V regulator).

If you have multiple units in your design (e.g., a base unit and remote unit) then you need a separate power budget for each unit

1] For inductive loads (e.g., motors, solenoids) this is often called "stall current" on the data s	heet