Individual Power Budget

Team Number:
Project Name:
Team Member Names:
Version:

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210

Version:	1	1						
		ed circuits, etc.) except for po						
All Major Components	Component Name	Part Number	SupplyVoltageRange	#	AbsoluteMaximum(TotalCurrent(mA)	Uni
	PIC Discovery Nano	PIC18F577Q43	1.8-5.1v	1		500	:	00 mA
	LCD Daughterboard	NHD-0420AZ-FSW-GBW-33V3	+1.8 - 3.3V	1		2.5		mA
								mA mA
								mA
								mA
								mA
B. Assign each major comp	oonent above to ONE power	rail below. Try to minimize the	number of different power	rails in the	e design.			
+12V Power Rail	Component Name	Part Number	SupplyVoltageRange	#	AbsoluteMaximum(Current (mA)	TotalCurrent(mA)	Uni
								0 mA 0 mA
								0 mA
								0 mA
								0 mA
						Subtotal		0 mA
						Safety Marain	2	5%
					Total Current Require		•	0 mA
								-
c1. Regulator or Source Ch	noice							0 mA
					aining Current Availab			0 mA
+5V Power Rail	Component Name	Part Number	SupplyVoltageRange	#	AbsoluteMaximum(TotalCurrent(mA)	Uni
	PIC Discovery Nano	PIC18F577Q43	1.8-5.1v	1		500		00 mA
	Speaker	SPKM.10.8.A	0.7-7.5V	1		666	(
								0 mA 0 mA
								0 mA
						Subtotal		66 mA
						Safety Margin		5%
					Total Current Requi		108	
c2. Regulator or Source Ch	+5V Regulator	LM7805	0-35V	1		1500	15	00 mA
				Total Ren	naining Current Availa		41	7.5 mA
-5V Power Rail	Component Name	Part Number	SupplyVoltageRange	#	AbsoluteMaximum(Current (mA)	TotalCurrent(mA)	Uni
								0 mA
								0 mA
								0 mA
								0 mA
						Subtotal		0 mA
					Total Current Requ	Safety Margin	2	5%
					rotar current requ			0 mA
c3. Regulator or Source Ch	noice				rotai current nega	nou on ovinan		0 mA
				Total Re	maining Current Avail	able on -5V Rail		0 mA 0 mA
c3. Regulator or Source Ch +3.3V Power Rail	Component Name	Part Number	SupplyVoltageRange	#		able on -5V Rail Current (mA)	TotalCurrent(mA)	0 mA 0 mA
		Part Number NHD-0420AZ-FSW-GBW-33V3	SupplyVoltageRange +1.8 - 3.3V	Total Re	maining Current Avail	able on -5V Rail		0 mA 0 mA Uni 2.5 mA
	Component Name			#	maining Current Avail	able on -5V Rail Current (mA)		0 mA 0 mA Uni 2.5 mA 0 mA
	Component Name			#	maining Current Avail	able on -5V Rail Current (mA)		0 mA 0 mA Uni 2.5 mA 0 mA 0 mA
	Component Name			#	maining Current Avail	able on -5V Rail Current (mA)		0 mA 0 mA Uni 2.5 mA 0 mA 0 mA 0 mA
	Component Name			#	maining Current Avail	able on -5V Rail Current (mA) 2.5		0 mA 0 mA Unit 2.5 mA 0 mA 0 mA 0 mA 2.5 mA
	Component Name			#	maining Current Availi AbsoluteMaximum [©]	able on -5V Rail Current (mA) 2.5 Subtotal Safety Margin	2	0 mA 0 mA Unit 2.5 mA 0 mA 0 mA 0 mA 2.5 mA
	Component Name			#	maining Current Avail	able on -5V Rail Current (mA) 2.5 Subtotal Safety Margin	2	0 mA 0 mA Unit 2.5 mA 0 mA 0 mA 0 mA 2.5 mA
+3.3V Power Rail	Component Name	NHD-0420AZ-FSW-GBW-33V3		#	maining Current Availi AbsoluteMaximum(able on -5V Rail Current (mA) 2.5 Subtotal Safety Margin	2	0 mA 0 mA Unit 2.5 mA 0 mA 0 mA 0 mA 2.5 mA
+3.3V Power Rail	Component Name LCD Daughterboard	NHD-0420AZ-FSW-GBW-33V3	+1.8 - 3.3V +5V - 18V	1	maining Current Availi AbsoluteMaximum(Subtotal Safety Margin d on +3.3V Rail	2 3.:	0 mA 0 mA Unit 2.5 mA 0 mA 0 mA 0 mA 2.5 mA
+3.3V Power Rail c4. Regulator or Source Ch	Component Name LCD Daughterboard 1 +3.3V low-dropout regulator	NHD-0420AZ-FSW-GBW-33V3	+1.8 - 3.3V +5V - 18V	1 Total Ren	maining Current Availa AbsoluteMaximumo Total Current Require	able on -5V Rail Current (mA) 2.5 Subtotal Safety Margin d on +3.3V Rail 100 ble on 3.3V Rail	2 3.: : 96.8	0 mA mA Unit 2.5 mA 0 mA 0 mA 0 mA 2.5 mA 0 mA 2.5 mA 6 mA
+3.3V Power Rail c4. Regulator or Source Ch	Component Name LCD Daughterboard 1 +3.3V low-dropout regulator	NHD-0420AZ-FSW-GBW-33V3	+1.8 - 3.3V +5V - 18V	1 Total Ren	maining Current Availa AbsoluteMaximumo Total Current Require	able on -5V Rail Current (mA) 2.5 Subtotal Safety Margin d on +3.3V Rail 100 ble on 3.3V Rail	2 3.: : 96.8	0 mA mA Unit 2.5 mA 0 mA 0 mA 0 mA 2.5 mA 0 mA 2.5 mA 6 mA
+3.3V Power Rail c4. Regulator or Source Ch C. For each power rail about	Component Name LCD Daughterboard 1 +3.3V low-dropout regulator ve, select a specific voltage.	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc	+1.8 - 3.3V +5V - 18V ess as for major componen	# 1 Total Ren	maining Current Availa AbsoluteMaximum Total Current Require haining Current Availa	able on -5V Rail 2.5 Subtotal Safety Margin d on +3.3V Rail 100 ble on 3.3V Rail	2 3.: 96.k rrent Available on each r	0 mA mA Unit 2.5 mA 0 mA 0 mA 2.5 mA 5.25 mA 6.00 mA 6.775 mA 6.00 mA 6
+3.3V Power Rail c4. Regulator or Source Ch C. For each power rail abou D. Select a specific externa	Component Name LCD Daughterboard +3.3V low-dropout regulator ve, select a specific voltage in power source (wall supply)	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same procor battery) for your system, as	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply	# 1 Total Ren t selection	Maining Current Availa AbsoluteMaximum Total Current Require taining Current Availa Confirm that the Total caregulators for all of the	able on -5V Rail 2.5 Subtotal Safety Margin of on +3.3V Rail ble on 3.3V Rail al Remaining Cu	2 3.: 96.i rrent Available on each r multaneously, if you neec	0 mA
+3.3V Power Rail c4. Regulator or Source Ch C. For each power rail abov D. Select a specific externa External Power Source 1	Component Name LCD Daughterboard + 3.3V low-dropout regulator ve, select a specific voltage in power source (wall supply Component Name)	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc or battery) for your system, ai Part Number	+1.8 - 3.3V +5V - 18V ess as for major componen	# 1 Total Ren t selection	maining Current Availa AbsoluteMaximum Total Current Require haining Current Availa	subte on -5V Rail Lurrent (mA) 2.5 Subtotal Sofety Margin of on +3.3V Rail 100 ble on 3.3V Rail al Remaining Cu the power rails six	3. 96.1 rrent Available on each rultaneously. If you ner Total Current(mA)	0 mA 0 mA 2.5 mA 0
+3.3V Power Rail c4. Regulator or Source Ch C. For each power rail abou D. Select a specific externa	Component Name LCD Daughterboard + 3.3V low-dropout regulator ve, select a specific voltage in power source (wall supply Component Name)	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same procor battery) for your system, as	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply SupptyVoltageRange	# 1 Total Rem t selection y all of the Outpu	Maining Current Availa AbsoluteMaximum Total Current Require taining Current Availa Confirm that the Total caregulators for all of the	able on -5V Rail 2.5 Subtotal Safety Margin of on +3.3V Rail ble on 3.3V Rail al Remaining Cu	3. 96.1 rrent Available on each rultaneously. If you ner Total Current(mA)	0 mA
+3.3V Power Rail c4. Regulator or Source Ch C. For each power rail abov D. Select a specific externa External Power Source 1 Power Source 1 Selection	Component Name LCD Daughterboard + 3.3V low-dropout regulator ve, select a specific voltage in power source (wall supply Component Name)	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc or battery) for your system, ai Part Number	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply SupptyVoltageRange	# 1 Total Rem t selection y all of the Outpu	Maining Current Availa AbsoluteMaximum Total Current Require taining Current Availa Confirm that the Total caregulators for all of the	subte on -5V Rail Lurrent (mA) 2.5 Subtotal Sofety Margin of on +3.3V Rail 100 ble on 3.3V Rail al Remaining Cu the power rails six	3. 96.1 rrent Available on each rultaneously. If you ner Total Current(mA)	0 mA 0 mA 2.5 mA 0
+3.3V Power Rail c4. Regulator or Source Ch C. For each power rail abov D. Select a specific externa External Power Source 1 Power Source 1 Selection Power Rails Connected to	Component Name LCD Daughterboard +3.3V low-dropout regulator	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc or battery) for your system, ai Part Number (full part number)	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply SupplyVoltageRange 110VAC (range)	# 1 Total Rem t selection y all of the Outpu	Maining Current Availa AbsoluteMaximum Total Current Require taining Current Availa Confirm that the Total caregulators for all of the	subte on -5V Rail Lurrent (mA) 2.5 Subtotal Sofety Margin of on +3.3V Rail 100 ble on 3.3V Rail al Remaining Cu the power rails six	2 3. 96.1 rrent Available on each r multaneously. If you need TotalCurrent(mA) 30	0 mA 0 mA Unit 2.5 mA 0 mA 0 mA 5.5 mA 0 mA 6.75 mA 6.
+3.3V Power Rail c4. Regulator or Source Ch C. For each power rail abov D. Select a specific externa External Power Source 1 Power Source 1 Selection	Component Name LCD Daughterboard +3.3V low-dropout regulator ve, select a specific voltage ll power source (wall supply Component Name Plug-in Wall Supply	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc or battery) for your system, at Part Number (full part number)	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply SupplyVoltageRange 110VAC (range) +5V - 20V	# 1 Total Rem t selection y all of the Outpu	AbsoluteMaximum(AbsoluteMaximum(Total Current Require anining Current Availa confirm that the Total regulators for all of the Confirm that the Total AbsoluteMaximum(able on -5V Rail Current (mA) 2.5 Subtotal Safety Margin d on +3.3V Rail 100 ble on 3.3V Rail al Remaining Cu the power rails sir Current (mA) 3000 3000 3002 3125	2 3.: 96.1 rrent Available on each r multaneously. If you need TotalCurrent(mA) 30.	0 mA
+3.3V Power Rail c4. Regulator or Source Ch C. For each power rail abov D. Select a specific externa External Power Source 1 Power Source 1 Selection Power Rails Connected to	Component Name LCD Daughterboard +3.3V low-dropout regulator	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc or battery) for your system, at Part Number (full part number)	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply SupplyVoltageRange 110VAC (range) +5V - 20V	# 1 Total Rem t selection y all of the Outpu	Maining Current Availa AbsoluteMaximum Total Current Require taining Current Availa Confirm that the Total caregulators for all of the	able on -5V Rail Current (mA) 2.5 Subtotal Safety Margin d on +3.3V Rail 100 ble on 3.3V Rail al Remaining Cu the power rails sir Current (mA) 3000 3000 3002 3125	2 3.: 96.1 rrent Available on each r multaneously. If you need TotalCurrent(mA) 30.	0 mA 0 mA Unit 2.5 mA 0 mA 0 mA 5.5 mA 0 mA 6.75 mA 6.
+3.3V Power Rail c4. Regulator or Source Ch C. For each power rail about D. Select a specific externate External Power Source 1 Power Source 1 Selection Power Rails Connected to External Power Source 1	Component Name LCD Daughterboard 1 +3.3V low-dropout regulator 1/e, select a specific voltage 1/power source (wall supply Component Name Plug-in Wall Supply +5V Regulator +3.3V low-dropout regulator	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc or battery) for your system, as Part Number (full part number) LM7805 LE33CZ-AP	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply SupplyVoltageRange 110VAC (range) +5V - 20V Total Remaining	# 1 Total Ren t selection y all of the Outpu `+9V	maining Current Availa AbsoluteMaximum(Total Current Require maining Current Availa n. Confirm that the Tot regulators for all of the Available on External in	Subtotal Safety Margin d on +3.3V Rail al Remaining Cu 100 ble on 3.3V Rail al Remaining Cu 100 100 1082.5 3.125 Power Source 1	2 3. 3. 96.1 prent Available on each r multaneously. If you neec TotalCurrent(mA) 30 108 3. 1914.3	0 mA 0 mA 0 mA 0 mA 1 Unit
+3.3V Power Rail c4. Regulator or Source Ch C. For each power rail about D. Select a specific external External Power Source 1 Power Source 1 Selection Power Rails Connected to External Power Source 1 External Power Source 2	Component Name LCD Daughterboard +3.3V low-dropout regulator //e, select a specific voltage . pl power source (wall supply Component Name Plug-in Wall Supply +5V Regulator +3.3V low-dropout regulator Component Name	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc or battery) for your system, at Part Number (full part number) LM7805 LB3CZ-AP Part Number	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply SupplyVoltageRange 110VAC (range) +5V - 20V	Total Ren 1 Total Ren t selection y all of the Outpu '+9V 1 1 Current A	AbsoluteMaximum(AbsoluteMaximum(Total Current Require anining Current Availa confirm that the Total regulators for all of the Confirm that the Total AbsoluteMaximum(Subtotal Safety Margin d on +3.3V Rail al Remaining Cu the power rails sincurrent (mA) 1082.5 3.1225 Current (mA) Current (mA) Current (mA) Current (mA)	2 3.: 96.4 rrent Available on each r multaneously. If you need TotalCurrent(mA) 30 108 3.1 1914.3	0 mA 0 mA Unit 0 mA
+3.3V Power Rail c4. Regulator or Source Ch C. For each power rail about D. Select a specific external External Power Source 1 Power Source 1 Selection Power Rails Connected to External Power Source 1 External Power Source 2	Component Name LCD Daughterboard 1 +3.3V low-dropout regulator 1/e, select a specific voltage 1/power source (wall supply Component Name Plug-in Wall Supply +5V Regulator +3.3V low-dropout regulator	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc or battery) for your system, as Part Number (full part number) LM7805 LE33CZ-AP	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply SupplyVoltageRange 110VAC (range) +5V - 20V Total Remaining	# 1 Total Ren t selection y all of the Outpu `+9V	maining Current Availa AbsoluteMaximum(Total Current Require maining Current Availa n. Confirm that the Tot regulators for all of the Available on External in	Subtotal Safety Margin d on +3.3V Rail al Remaining Cu 100 ble on 3.3V Rail al Remaining Cu 100 100 1082.5 3.125 Power Source 1	2 3.: 96.4 rrent Available on each r multaneously. If you need TotalCurrent(mA) 30 108 3.1 1914.3	0 mA 0 mA 0 mA 0 mA 1 Unit
+3.3V Power Rail c4. Regulator or Source Ch C. For each power rail abov D. Select a specific externa External Power Source 1 Power Source 1 Selection Power Source 1 Selection External Power Source 2 Power Source 2 Power Source 2 Selection	Component Name LCD Daughterboard +3.3V low-dropout regulator //e, select a specific voltage . pl power source (wall supply Component Name Plug-in Wall Supply +5V Regulator +3.3V low-dropout regulator Component Name	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc or battery) for your system, at Part Number (full part number) LM7805 LB3CZ-AP Part Number	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply SupplyVoltageRange 110VAC (range) +5V - 20V Total Remaining	Total Ren 1 Total Ren t selection y all of the Outpu '+9V 1 1 Current A	maining Current Availa AbsoluteMaximum(Total Current Require maining Current Availa n. Confirm that the Tot regulators for all of the Available on External in	Subtotal Safety Margin d on +3.3V Rail al Remaining Cu the power rails sincurrent (mA) 1082.5 3.1225 Current (mA) Current (mA) Current (mA) Current (mA)	2 3.: 96.4 rrent Available on each r multaneously. If you need TotalCurrent(mA) 30 108 3.1 1914.3	0 mA 0 mA 0 mA 0 mA 0 mA 1 mi 2.5 mA 0 mA 0 mA 2.5 mA 5.5 mA 6 mA 6 mA 6 mA 7.5 mA 7.5 mA 7.5 mA 0
c4. Regulator or Source Ch C. For each power rail abou D. Select a specific external External Power Source 1 Power Source 1 Selection Power Rails Connected to External Power Source 2 Power Source 2 Selection Power Rails Connected to	Component Name LCD Daughterboard 1 +3.3V low-dropout regulator ve. select a specific voltage. If power source (wall supply Component Name Plug-in Wall Supply +5V Regulator +3.3V low-dropout regulator Component Name Subsystem power sharing	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc or battery) for your system, ai Part Number (full part number) LM7805 LE33CZ-AP Part Number N/A	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply SupplyVoltageRange 110VAC (range) +5V - 20V Total Remaining SupplyVoltageRange	Total Ren t selection y all of the Outpu '+9V 1 1 Current A Outpu '+5V	maining Current Availa AbsoluteMaximum(Total Current Require maining Current Availa n. Confirm that the Tot regulators for all of the Available on External in	Subtotal Sofety Margin d on +3.3V Rail 100 ble on 3.3V Rail al Remaining Curee power rails si Current (mA) 1082.5 3.125 Power Source 1 Current (mA) 3000	2 3. 96.1 97. 96.1 97. 98.1 98.1 99.1 99.1 99.1 99.1 108.1 108.1 109	0 mA
+3.3V Power Rail c4. Regulator or Source Ch C. For each power rail abov D. Select a specific externa External Power Source 1 Power Source 1 Selection Power Source 1 Selection External Power Source 2 Power Source 2 Power Source 2 Selection	Component Name LCD Daughterboard +3.3V low-dropout regulator ve, select a specific voltage of the select as pecific voltage of th	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc or battery) for your system, ai Part Number (full part number) LM7805 Part Number N/A LM7805	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply SupplyVoltageRange 110VAC (range) +5V - 20V Total Remaining	Total Ren 1 Total Ren t selection y all of the Outpu '+9V 1 1 Current A	maining Current Availa AbsoluteMaximum(Total Current Require maining Current Availa n. Confirm that the Tot regulators for all of the Available on External in	Subtotal Safety Margin d on +3.3V Rail al Remaining Cu the power rails sincurrent (mA) 1082.5 3.1225 Current (mA) Current (mA) Current (mA) Current (mA)	2 3.: 96.4 rrent Available on each r multaneously. If you need TotalCurrent(mA) 30 108 3.1 1914.3	0 mA
c4. Regulator or Source Ch C. For each power rail abou D. Select a specific external External Power Source 1 Power Source 1 Selection Power Rails Connected to External Power Source 2 Power Source 2 Selection Power Rails Connected to	Component Name LCD Daughterboard 1 +3.3V low-dropout regulator ve. select a specific voltage. If power source (wall supply Component Name Plug-in Wall Supply +5V Regulator +3.3V low-dropout regulator Component Name Subsystem power sharing	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc or battery) for your system, ai Part Number (full part number) LM7805 Part Number N/A LM7805	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply SupplyVoltageRange 110VAC (range) +5V - 20V Total Remaining SupplyVoltageRange (range) +5V - 20V	# 1 Total Ren t selection y all of the Outpu '+9V 1 1 Current A Outpu '+5V	maining Current Availa AbsoluteMaximum(Total Current Require maining Current Availa n. Confirm that the Tot regulators for all of the Available on External in	Subtotal Sofety Margin d on +3.3V Rail 100 ble on 3.3V Rail al Remaining Curent (mA) 1082.5 3.125 Power Source 1 Current (mA) 3000 1082.5 3.125	2 3.: 96.1 97.1 97.2 97.2 97.2 97.2 97.2 97.2 97.2 97.2	0 mA 0 mA 0 mA Unit 2.5 mA 0 mA 0 mA 0 mA 0 mA 0 mA 5% mA 5% mA 00 mA 175 mA 175 mA 1775 mA 17
c4. Regulator or Source Ch C. For each power rail abou D. Select a specific external External Power Source 1 Power Source 1 Selection Power Rails Connected to External Power Source 2 Power Source 2 Selection Power Rails Connected to	Component Name LCD Daughterboard +3.3V low-dropout regulator ve, select a specific voltage of the select as pecific voltage of th	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc or battery) for your system, ai Part Number (full part number) LM7805 Part Number N/A LM7805	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply SupplyVoltageRange 110VAC (range) +5V - 20V Total Remaining SupplyVoltageRange (range) +5V - 20V	# 1 Total Ren t selection y all of the Outpu '+9V 1 1 t Current A Outpu '+5V	Total Current Availa AbsoluteMaximum Total Current Require anaining Current Availa Corrent Availa AbsoluteMaximum Available on External I AbsoluteMaximum Available on External II Available on External II AbsoluteMaximum Available on E	Subtotal Sofety Margin d on +3.3V Rail 100 ble on 3.3V Rail al Remaining Curent (mA) 1082.5 3.125 Power Source 1 Current (mA) 3000 1082.5 3.125	2 3. 96.1 97.2 98.2 98.2 98.2 99.2 99.2 99.2 99.2 99	0 mA 0 mA 0 mA Unit 2.5 mA 0 mA 0 mA 0 mA 0 mA 0 mA 5% mA 5% mA 00 mA 175 mA 175 mA 1775 mA 17
+3.3V Power Rail c4. Regulator or Source Ch C. For each power rail abou D. Select a specific external External Power Source 1 Power Source 1 Selection Power Rails Connected to External Power Source 2 Power Source 2 Selection Power Rails Connected to External Power Source 2 Power Source 2 Selection	Component Name LCD Daughterboard +3.3V low-dropout regulator ve, select a specific voltage in power source (wall supply Component Name Plug-in Wall Supply +5V Regulator +3.3V low-dropout regulator Component Name Subsystem power sharing +5V Regulator +3.3V low-dropout regulator	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc or battery) for your system, ai Part Number (full part number) LM7805 Part Number N/A LM7805	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply SupplyVoltageRange 110VAC (range) +5V - 20V Total Remaining (range) +5V - 20V Total Remaining	Total Ren t selection y all of the Output 1 1 1 Current t selection 1 1 1 Current 1 1 1 Current	Total Current Require anining Current Require anining Current Availa a. Confirm that the Total AbsoluteMaximum Available on External I	Subtotal Sofety Margin d on +3.7 Rail 2.5 Subtotal Sofety Margin d on +3.3V Rail al Remaining Cu the power rails sir current (mA) 3000 1082.5 3.125 Current (mA) 3000 1082.5 3.125 Current (mA) 3000	2 3. 96.1 97. 96.1 97. 97. 96.1 97. 97. 97. 97. 97. 97. 97. 97	0 mA 0 mA 0 mA Unit 2.5 mA 0 mA 0 mA 0 mA 0 mA 0 mA 5% mA 5% mA 00 mA 175 mA 175 mA 1775 mA 17
+3.3V Power Rail c4. Regulator or Source Ch C. For each power rail abou D. Select a specific external External Power Source 1 Power Source 1 Selection Power Rails Connected to External Power Source 2 Power Source 2 Selection Power Rails Connected to External Power Source 2 Power Source 2 Selection	Component Name LCD Daughterboard +3.3V low-dropout regulator ve, select a specific voltage in power source (wall supply Component Name Plug-in Wall Supply +5V Regulator +3.3V low-dropout regulator Component Name Subsystem power sharing +5V Regulator +3.3V low-dropout regulator	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc or battery) for your system, at Part Number (full part number) LM7805 LE33CZ-AP Part Number N/A LM7805 LE33CZ-AP	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply SupplyVoltageRange 110VAC (range) +5V - 20V Total Remaining SupplyVoltageRange (range) +5V - 20V Total Remaining	Total Ren t selection y all of the Output 1 1 1 Current 1 1 Current	Total Current Available on External in E	Subtotal Sofety Margin d on +3.7 Rail 2.5 Subtotal Sofety Margin d on +3.3V Rail al Remaining Cu the power rails sir current (mA) 3000 1082.5 3.125 Current (mA) 3000 1082.5 3.125 Current (mA) 3000	2 3. 96.1 97.2 98.2 98.2 98.2 99.2 99.2 99.2 99.2 99	0 mA 0 mA 0 mA Unit 2.5 mA 0 mA 0 mA 0 mA 0 mA 0 mA 5% mA 5% mA 00 mA 175 mA 175 mA 1775 mA 17
+3.3V Power Rail c4. Regulator or Source Ch C. For each power rail abou D. Select a specific external External Power Source 1 Power Source 1 Selection Power Rails Connected to External Power Source 2 Power Source 2 Selection Power Rails Connected to External Power Source 2 Power Source 2 Selection	Component Name LCD Daughterboard 1 +3.3V low-dropout regulator ve, select a specific voltage If power source (wall supply Component Name Plug-in Wall Supply +5V Regulator +3.3V low-dropout regulator Component Name Subsystem power sharing +5V Regulator +3.3V low-dropout regulator +3.3V low-dropout regulator +3.3V low-dropout regulator	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc or battery) for your system, ai Part Number (full part number) LM7805 LB33CZ-AP Part Number N/A LM7805 LE33CZ-AP	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply SupplyVoltageRange 110VAC (range) +5V - 20V Total Remaining (range) +5V - 20V Total Remaining	Total Ren t selection y all of the Output 1 1 1 Current 1 1 Current	Total Current Require anining Current Require anining Current Availa a. Confirm that the Total AbsoluteMaximum Available on External I	Subtotal Sub	2 3. 96.1 97. 96.1 97. 97. 96.1 97. 97. 97. 97. 97. 97. 97. 97	0 mA 0 mA 1
+3.3V Power Rail c4. Regulator or Source Ch C. For each power rail abov D. Select a specific external External Power Source 1 Power Source 1 Selection Power Rails Connected to External Power Source 2 Power Source 2 Selection Power Rails Connected to External Power Source 2 Power Source 2 Selection	Component Name LCD Daughterboard 1 +3.3V low-dropout regulator ve, select a specific voltage If power source (wall supply Component Name Plug-in Wall Supply +5V Regulator +3.3V low-dropout regulator Component Name Subsystem power sharing +5V Regulator +3.3V low-dropout regulator +3.3V low-dropout regulator +3.3V low-dropout regulator	NHD-0420AZ-FSW-GBW-33V3 LE33CZ-AP regulator using the same proc or battery) for your system, ai Part Number (full part number) LM7805 LB33CZ-AP Part Number N/A LM7805 LE33CZ-AP	+1.8 - 3.3V +5V - 18V ess as for major componen nd confirm that it can supply SupplyVoltageRange 110VAC (range) +5V - 20V Total Remaining (range) +5V - 20V Total Remaining	Total Ren t selection y all of the Output 1 1 1 Current 1 1 Current	Total Current Require anining Current Require anining Current Availa a. Confirm that the Total AbsoluteMaximum Available on External I	Subtotal Sofety Margin d on +3.7 Rail 2.5 Subtotal Sofety Margin d on +3.3V Rail al Remaining Cu the power rails sir current (mA) 3000 1082.5 3.125 Current (mA) 3000 1082.5 3.125 Current (mA) 3000	2 3. 96.1 97. 96.1 97. 97. 96.1 97. 97. 97. 97. 97. 97. 97. 97	0 mA 0 mA 0 mA Unit 2.5 mA 0 mA 0 mA 0 mA 0 mA 0 mA 5% mA 5% mA 00 mA 175 mA 175 mA 1775 mA 17

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