Bill of Materials - LED Box Version 3

					rials - LED Box Version 3	
Source:	/ledbox.sch					
Date:	Monday; 16 October 2017 'pmt' 16:36:03					
	Eeschema 4.0.7					
Component Count:	69					
Individual Components:						
individual Components.						
Item	Qty Reference(s)	Populate	Value	Footprint	LibPart	Datasheet
	C201	Yes	10u	Capacitors_SMD:C_0805	device:C	
	C202	Yes	22p	Capacitors_SMD:C_0805	device:C	
	C203	Yes	470p	Capacitors_SMD:C_0805	device:C	
	C301	Yes	10u	Capacitors_SMD:C_0805	device:C	
	C302	Yes	100n	Capacitors_SMD:C_0805	device:C	
	C401	Yes	100n	Capacitors_SMD:C_0805	device:C	
	C402	Yes	100n	Capacitors_SMD:C_0805	device:C	
	C403	Yes	100n	Capacitors_SMD:C_0805	device:C	
	C404 C405	Yes	100n	Capacitors_SMD:C_0805	device:C	
	C407	Yes	100n 100n	Capacitors_SMD:C_0805 Capacitors_SMD:C_0805	device:C	
	C408	Prototype	22p	Capacitors_SMD:C_0805	device:C	
	C409	Prototype	22p	Capacitors_SMD:C_0805	device:C	
	C501	Yes	4u7	Capacitors_THT:CP_Radial_D5.0mm_P2.00mm	device:CP	
	C502	Yes	100n	Capacitors_SMD:C_0805	device:C	
	C503	Yes	100n	Capacitors_SMD:C_0805	device:C	
	C504	Yes	47u	Capacitors_THT:CP_Radial_D6.3mm_P2.50mm	device:CP	
	CON401	Yes	AVR_ISP	Pin_Headers:Pin_Header_Straight_2x03	atmel:AVR-ISP-6	
	D201 D202	Yes	1N4148 1N4148	Diodes_SMD:D_SOD-123 Diodes_SMD:D_SOD-123	device:D	
	D301	Yes	LRTBG6TG	ledbox-newfootprints:LED-6-BIG		http://www.osram-os.com/Graphics/XPic4/00067263_0.pdf
	D302	Yes	LED1	LEDs:LED_0805	device:LED	
	D303	Yes	LED2	LEDs:LED_0805	device:LED	
	D501	Yes	1N4148	Diodes_SMD:D_SOD-123	device:D	
	D502	Yes	LED2	LEDs:LED_0805	device:LED	
	J201	Yes	Bus	Pin_Headers:Pin_Header_Straight_2x05	conn:Conn_02x05_Odd_Even	
	J301 J302	Yes	IR LED	Pin_Headers:Pin_Header_Straight_1x03	conn:Conn_01x03	
	J302 J401	Yes	Button	Pin_Headers:Pin_Header_Straight_1x02 Socket_Strips:Socket_Strip_Straight_2x03	conn:Conn_01x02 conn:Conn_02x03_Odd_Even	
	J402	Yes	Power	Socket_Strips:Socket_Strip_Straight_2x04	conn:Conn_02x04_Odd_Even	
	J403	Yes	Power	Socket_Strips:Socket_Strip_Straight_2x05	conn:Conn_02x05_Odd_Even	
	J404	Yes	Port D	Socket_Strips:Socket_Strip_Straight_1x03	conn:Conn_01x03	
	J405	Yes	Port B	Socket_Strips:Socket_Strip_Straight_1x04	conn:Conn_01x04	
	J406	Yes	Port C	Socket_Strips:Socket_Strip_Straight_1x05	conn:Conn_01x05	
	J407	Yes	ADC6	Socket_Strips:Socket_Strip_Straight_1x03	conn:Conn_01x03	
	J408 J501	Yes	ADC7 6.5V-12V	Socket_Strips:Socket_Strip_Straight_1x03 Connectors_Terminal_Blocks:TerminalBlock_Pheonix_MKDS1.5-2pol	conn:Conn_01x03	
	J501 J502	Yes	6.5V-12V 5V	Connectors_Terminal_Blocks:TerminalBlock_Pheonix_MKDS1.5-2pol Connectors_Terminal_Blocks:TerminalBlock_Pheonix_MKDS1.5-2pol	conn:Conn_01x02	
	R201	Prototype	1k	Resistors_SMD:R_0805	device:R	
	R202	Prototype	150	Resistors_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizonta		
	R203	Prototype	1k	Resistors_SMD:R_0805	device:R	
	R204	Yes	10k	Resistors_SMD:R_0805	device:R	
	R205	Yes	100	Resistors_SMD:R_0805	device:R	
	R206 R207	Yes	22k 3k3	Resistors_SMD:R_0805 Resistors_SMD:R_0805	device:R	
	R208	Yes	2k2	Resistors_SMD:R_0805	device:R	
	R301	Yes	10k	Resistors_SMD:R_0805	device:R	
	R302	Yes	10k	Resistors_SMD:R_0805	device:R	
	R303	Yes	10k	Resistors_SMD:R_0805	device:R	
	R304	Yes	150	Resistors_SMD:R_0805	device:R	
	R305 R306	Yes	82 22	Resistors_SMD:R_0805 Resistors_SMD:R_0805	device:R device:R	
	R307	Yes	22	Resistors_SMD:R_0805	device:R	
	R308	Yes	430	Resistors_SMD:R_0805	device:R	
	R309	Yes	430	Resistors_SMD:R_0805	device:R	
	R310	Yes	10k 82	Resistors_SMD:R_0805	device:R	
	DOIL		82	Resistors_SMD:R_0805	device:R	
	R311	Yes		Resistors SMD:R 0805	device:R	
	R311 R401 R402	Yes	1k	Resistors_SMD:R_0805 Resistors_SMD:R_0805	device:R	
	R401		1k	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Resistors_SMD:R_0805		
	R401 R402	Yes Yes	1k 1k	Resistors_SMD:R_0805	device:R	
	R401 R402 R403 R501 SW301	Yes Yes Yes Yes Yes	1k 1k 1k 430 Reset	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm	device:R device:R device:R switches:SW_Push	
	R401 R402 R403 R501 SW301 SW302	Yes Yes Yes Yes Yes Yes	1k 1k 1k 430 Reset Push 1	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm	device:R device:R device:R switches:SW_Push switches:SW_Push	
	R401 R402 R403 R501 SW301 SW302 SW303	Yes Yes Yes Yes Yes Yes Yes Yes	1k 1k 1k 430 Reset Push 1 Push 2	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm	device:R device:R device:R switches:SW_Push switches:SW_Push switches:SW_Push	http://www.st.com/content/ccc/resource/technical/document/datasheet/4b/81/a8/cd/8a/72/47/82/CD00002183.pdf/files/CD00002183.pdf/jcr:content/translations/en.CD00002183.pdf
	R401 R402 R403 R501 SW301 SW302	Yes Yes Yes Yes Yes Yes	1k 1k 1k 430 Reset Push 1	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm	device:R device:R device:R switches:SW_Push switches:SW_Push	http://www.st.com/content/ccc/resource/technical/document/datasheet/4b/81/a8/cd/8a/72/47/82/CD00002183.pdf/files/CD00002183.pdf/jcr:content/translations/en.CD00002183.pdf http://www.ti.com/lit/ds/symlink/ulq2004a.pdf
	R401 R402 R403 R501 SW301 SW302 SW303 U201	Yes Yes Yes Yes Yes Yes Yes Yes Yes	1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm	device:R device:R device:R switches:SW_Push switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B	
	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501	Yes	1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2	device:R device:R device:R switches:SW_Push switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf
	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401	Yes	1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm	device:R device:R device:R switches:SW_Push switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf
	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501	Yes	1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2	device:R device:R device:R switches:SW_Push switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf
	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501	Yes	1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2	device:R device:R device:R switches:SW_Push switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf
Collated Components:	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501	Yes	1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2	device:R device:R device:R switches:SW_Push switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf
	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 Y401	Yes	1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD	device:R device:R switches:SW_Push switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf
-	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 V401 Office (S) Reference(S)	Yes	1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD	device:R device:R switches:SW_Push switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf
	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 Y401	Yes	1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD	device:R device:R switches:SW_Push switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf
	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 V401 OTHER STATE OF THE STATE	Yes	1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD	device:R device:R switches:SW_Push switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf
	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Qty Reference(s) 2 C201; C301 3 C202; C408; C409	Yes	1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD	device:R device:R switches:SW_Push switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf
	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Qty Reference(s) 2 C201; C301 3 C202; C408; C409 1 C203 9 C302; C401; C402; C403; C404; C405; C407; C502; C503 1 C501	Yes	1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:C device:C	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf
	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Qty Reference(s) 2 C201; C301 3 C202; C408; C409 1 C203 9 C302; C401; C402; C403; C404; C405; C407; C502; C503 1 C501 1 C504	Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:C device:C device:C device:CP	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf
	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Cty Reference(s) C2 C201; C301 C3 C202; C408; C409 C302; C401; C402; C403; C404; C405; C407; C502; C503 C501 C504 CON401	Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_GPP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:C device:C device:C device:CP atmel:AVR-ISP-6	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf
	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Qty Reference(s) 2 C201; C301 3 C202; C408; C409 1 C203 9 C302; C401; C402; C403; C404; C405; C407; C502; C503 1 C501 1 C504	Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:C device:C device:CP device:CP atmel:AVR-ISP-6 device:D	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf
	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Cty Reference(s) 2 C201; C301 3 C202; C408; C409 1 C203 9 C302; C401; C402; C403; C404; C405; C407; C502; C503 1 C501 1 C504 1 CON401 3 D201; D202; D501	Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP 1N4148	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03 Diodes_SMD:D_SOD-123	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:C device:C device:CP device:CP atmel:AVR-ISP-6 device:D	http://www.ti.com/lit/ds/symllink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf Datasheet Datasheet
Item 1 2 3 4 5 6 7 8 9 10	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Qty Reference(s) 2 C201; C301 3 C202; C408; C409 1 C203 9 C302; C401; C402; C403; C404; C405; C407; C502; C503 1 C501 1 C504 1 CON401 3 D201; D202; D501 1 D302 2 D303; D502	Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP 1N4148 LRTBG6TG LED1 LED2	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03 Diodes_SMD:D_SOD-123 ledbox-newfootprints:LED-6-BIG LEDs:LED_0805 LEDs:LED_0805	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:C device:C device:Ch device:CP device:CP atmel:AVR-ISP-6 device:D ledbox-newsymbols:LRTBG6TG device:LED device:LED	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf Datasheet Datasheet
Item 1 2 3 4 5 6 7 8 9 10 11	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Oty Reference(s) 2 C201; C301 3 C202; C408; C409 1 C203 9 C302; C401; C402; C403; C404; C405; C407; C502; C503 1 C501 1 C504 1 CON401 3 D201; D202; D501 1 D302 2 D303; D502 1 J201	Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP 1N4148 LRTBG6TG LED1 LED2 Bus	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_GP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03 Diodes_SMD:D_SOD-123 ledbox-newfootprints:LED-6-BIG LEDs:LED_0805 Pin_Header:SPin_Header_Straight_2x05 Pin_Header:SPin_Header_Straight_2x05	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:C device:C device:Ch device:CP device:CP atmel:AVR-ISP-6 device:D ledbox-newsymbols:LRTBG6TG device:LED conn:Conn_02x05_Odd_Even	http://www.ti.com/lit/ds/symllink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf Datasheet Datasheet
Item 1 2 3 4 5 6 7 8 9 10	R401 R402 R403 R501 Sw301 Sw302 Sw303 U201 U301 U401 U501 Y401 Cty Reference(s) C2 C201; C301 C3 C202; C408; C409 C302 C401; C402; C403; C404; C405; C407; C502; C503 C501 C504 CON401 CON401 CON401 CON401 CD302 C2 D303; D502 C303; D502 C304; D304 C304 C305; D305; D502 C305; D305;	Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP 1N4148 LRTBG6TG LED1 LED2 Bus IR LED	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03 Diodes_SMD:D_SOD-123 ledbox-newfootprints:LED-6-BIG LEDs:LED_0805 Pin_Headers:Pin_Header_Straight_2x05 Pin_Headers:Pin_Header_Straight_1x03	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:C device:C device:CP device:CP atmel:AVR-ISP-6 device:D ledbox-newsymbols:LRTBG6TG device:LED device:LED conn:Conn_02x05_Odd_Even conn:Conn_01x03	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf Datasheet Datasheet
Item 1 2 3 4 5 6 7 8 9 10 11	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Oty Reference(s) 2 C201; C301 3 C202; C408; C409 1 C203 9 C302; C401; C402; C403; C404; C405; C407; C502; C503 1 C501 1 C504 1 CON401 3 D201; D202; D501 1 D302 2 D303; D502 1 J201	Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP 1N4148 LRTBG6TG LED1 LED2 Bus	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03 Diodes_SMD:D_SOD-123 ledbox-newfootprints:LED-6-BIG LEDs:LED_0805 Pin_Headers:Pin_Header_Straight_2x05 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x02	device:R device:R device:R switches:SW_Push switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:C device:CP device:CP atmel:AVR-ISP-6 device:D ledbox-newsymbols:LRTBG6TG device:LED conn:Conn_02x05_Odd_Even conn:Conn_01x03 conn:Conn_01x02	http://www.ti.com/lit/ds/symllink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf Datasheet Datasheet
Item 1 2 3 4 5 6 7 8 9 10 11 12 13	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Cty Reference(s) C2 C201; C301 C203 C302; C401; C402; C403; C404; C405; C407; C502; C503 C504 CON401 D301 D302 D303; D502 D303; D502 D303; D502 D303; D502 D301 D301 D301 D301 D301 D301 D301 D301	Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP 1N4148 LRTBG6TG LED1 LED2 Bus IR LED Button	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_QFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03 Diodes_SMD:D_SOD-123 ledbox-newfootprints:LED-6-BIG LEDs:LED_0805 Pin_Headers:Pin_Header_Straight_2x05 Pin_Headers:Pin_Header_Straight_1x03	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:C device:C device:CP device:CP atmel:AVR-ISP-6 device:D ledbox-newsymbols:LRTBG6TG device:LED device:LED conn:Conn_02x05_Odd_Even conn:Conn_01x03	http://www.ti.com/lit/ds/symllink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf Datasheet Datasheet
Item 1 2 3 4 5 6 7 8 9 10 11 12 13 14	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Cty Reference(s) C2 C201; C301 C203 C302; C408; C409 C501 C501 C501 C504 CON401 CON401 CON401 CON401 CON401 CON30; D502 C2 D303; D502 C302; D303; D502 C303; D302 C303; D302 C303; D302 C303; D303; D502 C303; D302 C303; D303; D502 C303; D303; D502 C303; D303; D302 C303; D302 C303; D302 C303; D302 C304; D304 C304 C305; D305; D306 C305; D306 C305; D306 C305; D307 C3	Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP 1N4148 LRTBG6TG LED1 LED2 Bus IR LED Button Power	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_OFP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03 Diodes_SMD:D_SOD-123 ledbox-newfootprints:LED-6-BIG LEDs:LED_0805 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x02 Socket_Strips:Socket_Strip_Straight_1x02	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:C device:CP atmel:AVR-ISP-6 device:D ledbox-newsymbols:LRTBG6TG device:LED device:LED conn:Conn_01x03 conn:Conn_01x02 conn:Conn_02x03_Odd_Even	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf Datasheet Datasheet
Item 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Qty Reference(s) 2 C201; C301 3 C202; C408; C409 1 C203 9 C302; C401; C402; C403; C404; C405; C407; C502; C503 1 C501 1 C504 1 CON401 3 D201; D202; D501 1 D302 2 D303; D502 1 J201 1 J301 1 J302 1 J401 1 J402 1 J403 1 J404	Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP 1N4148 LRTBG6TG LED1 LED2 Bus IR LED Button Power Power Port D	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_GPP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03 Diodes_SMD:D_SOD-123 ledbox-newfootprints:LED-6-BIG LEDs:LED_0805 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x02 Socket_Strips:Socket_Strip_Straight_2x04 Socket_Strips:Socket_Strip_Straight_2x05 Socket_Strips:Socket_Strip_Straight_1x03	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:CP device:CP atmel:AVR-ISP-6 device:LED device:LED conn:Conn_02x05_Odd_Even conn:Conn_02x04_Odd_Even conn:Conn_02x05_Odd_Even	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf Datasheet Datasheet
Item 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Cty Reference(s) C2 C201; C301 C501 C504 C504 CON401 CON4	Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP 1N4148 LRTBG6TG LED1 LED2 Bus IR LED Button Power Power Port D Port B	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_GPP:TGPP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03 Diodes_SMD:D_SOD-123 ledbox-newfootprints:LED-6-BIG LEDs:LED_0805 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x02 Socket_Strips:Socket_Strip_Straight_2x04 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:C device:CP device:CP device:CP atmel:AVR-ISP-6 device:D ledbox-newsymbols:LRTBG6TG device:LED conn:Conn_02x05_Odd_Even conn:Conn_01x02 conn:Conn_02x04_Odd_Even conn:Conn_02x05_Odd_Even conn:Conn_02x05_Odd_Even conn:Conn_01x03 conn:Conn_02x05_Odd_Even conn:Conn_02x05_Odd_Even conn:Conn_02x05_Odd_Even conn:Conn_02x05_Odd_Even conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x04	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf Datasheet Datasheet
Item 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Cty Reference(s) C2 C201; C301 C501 C504 C504 CON401 CON4	Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP 1N4148 LRTBG6TG LED1 LED2 Bus IR LED Button Power Power Port D Port D Port B Port C	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_GPP:TQFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03 Diodes_SMD:D_SOD-123 ledbox-newfootprints:LED-6-BIG LEDs:LED_0805 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x02 Socket_Strips:Socket_Strip_Straight_2x05 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x04 Socket_Strips:Socket_Strip_Straight_1x04 Socket_Strips:Socket_Strip_Straight_1x05	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:CP device:CP atmel:AVR-ISP-6 device:D ledbox-newsymbols:LRTBG6TG device:LED device:LED conn:Conn_02x05_Odd_Even conn:Conn_02x04_Odd_Even conn:Conn_02x04_Odd_Even conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_02x05_Odd_Even conn:Conn_02x04_Odd_Even conn:Conn_02x05_Odd_Even conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x05	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf Datasheet Datasheet
Item 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Cty Reference(s) C2 C201; C301 C501 C504 C504 CON401 CON4	Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP 1N4148 LRTBG6TG LED1 LED2 Bus IR LED Button Power Power Port D Port B	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_GPP:TGPP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03 Diodes_SMD:D_SOD-123 ledbox-newfootprints:LED-6-BIG LEDs:LED_0805 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x02 Socket_Strips:Socket_Strip_Straight_2x04 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:C device:CP device:CP device:CP atmel:AVR-ISP-6 device:D ledbox-newsymbols:LRTBG6TG device:LED conn:Conn_02x05_Odd_Even conn:Conn_01x02 conn:Conn_02x04_Odd_Even conn:Conn_02x05_Odd_Even conn:Conn_02x05_Odd_Even conn:Conn_01x03 conn:Conn_02x05_Odd_Even conn:Conn_02x05_Odd_Even conn:Conn_02x05_Odd_Even conn:Conn_02x05_Odd_Even conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x04	http://www.ti.com/lit/ds/symllink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf Datasheet Datasheet
Item 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Qty Reference(s) C202; C408; C409 C203 G202; C401; C402; C403; C404; C405; C407; C502; C503 C504 CON401 CO	Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP 1N4148 LRTBG6TG LED1 LED2 Bus IR LED Button Power Power Port D Port B Port C ADC6	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_GP:TOFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03 Diodes_SMD:D_SOD-123 ledbox-newfootprints:LED-6-BIG LEDs:LED_0805 Pin_Headers:Pin_Header_Straight_2x05 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x02 Socket_Strips:Socket_Strip_Straight_2x04 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x04 Socket_Strips:Socket_Strip_Straight_1x05 Socket_Strips:Socket_Strip_Straight_1x05 Socket_Strips:Socket_Strip_Straight_1x05	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:CP device:CP atmel:AVR-ISP-6 device:D ledbox-newsymbols:LRTBG6TG device:LED device:LED conn:Conn_01x03 conn:Conn_02x05_Odd_Even conn:Conn_02x04_Odd_Even conn:Conn_02x05_Odd_Even conn:Conn_01x03 conn:Conn_01x03 conn:Conn_02x05_Odd_Even conn:Conn_02x05_Odd_Even conn:Conn_02x05_Odd_Even conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x05 conn:Conn_01x05 conn:Conn_01x03	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf Datasheet Datasheet
Item 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	R401 R402 R501 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Cty Reference(s) C2C20; C408; C409 C2C3 C3C2; C401; C402; C403; C404; C405; C407; C502; C503 C501 C501 C504 CON401 CON401 CD30 CD40; C504 CD504 CD70 CD80 CD80 CD80 CD80 CD80 CD80 CD80 CD8	Yes Yes Yes Yes Yes Yes Yes Yes Yes Prototype Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP 1N4148 LRTBG6TG LED1 LED2 Bus IR LED Button Power Power Power Port D Port B Port C ADC6 ADC7 6.5V-12V 5V	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_GPP:TOFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03 Diodes_SMD:D_SOD-123 ledbox-newfootprints:LED-6-BIG LEDs:LED_0805 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x02 Socket_Strips:Socket_Strip_Straight_1x04 Socket_Strips:Socket_Strip_Straight_1x04 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x04 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Connectors_Terminal_Blocks:TerminalBlock_Pheonix_MKDS1.5-2pol Connectors_Terminal_Blocks:TerminalBlock_Pheonix_MKDS1.5-2pol	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:C device:CP device:CP atmel:AVR-ISP-6 device:LED device:LED conn:Conn_02x05_Odd_Even conn:Conn_01x03 conn:Conn_02x05_Odd_Even conn:Conn_02x04_Odd_Even conn:Conn_02x05_Odd_Even conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x04 conn:Conn_01x05 conn:Conn_01x05 conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x05 conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x05 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x02 conn:Conn_01x02	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf Datasheet Datasheet
Item 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Cty Reference(s) C202; C408; C409 C202; C408; C409 C302; C401; C402; C403; C404; C405; C407; C502; C503 C504 CON401 CON4	Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP 1N4148 LRTBG6TG LED1 LED2 Bus IR LED Button Power Power Power Port D Port B Port C ADC6 ADC7 6.5V-12V 5V et 1k	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_GPP:TOFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03 Diodes_SMD:D_SOD-123 ledbox-newfootprints:LED-6-BIG LEDs:LED_0805 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x02 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x04 Socket_Strips:Socket_Strip_Straight_1x03 Connectors_Terminal_Blocks:TerminalBlock_Pheonix_MKDS1.5-2pol Cnnectors_Terminal_Blocks:TerminalBlock_Pheonix_MKDS1.5-2pol Cnnectors_Terminal_Blocks:TerminalBlock_Pheonix_MKDS1.5-2pol Cnnectors_Terminal_Blocks:TerminalBlock_Pheonix_MKDS1.5-2pol	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:CP device:CP atmel:AVR-ISP-6 device:LED device:LED device:LED conn:Conn_01x03 conn:Conn_02x05_Odd_Even conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x05 conn:Conn_01x03 conn:Conn_01x02 device:R	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf Datasheet Datasheet
Item 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 Qty Reference(s) C202; C408; C409 C202; C408; C409 C302; C401; C402; C403; C404; C405; C407; C502; C503 C504 CON401 CON4	Yes	1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP 1N4148 LRTBG6TG LED1 LED2 Bus IR LED Button Power Power Port D Port B Port C ADC6 ADC7 6.5V-12V 5V 1k 150	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_GFP:TGFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03 Diodes_SMD:D_SOD-123 ledbox-newfootprints:LED-6-BIG LEDs:LED_0805 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_2x04 Socket_Strips:Socket_Strip_Straight_2x05 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x04 Socket_Strips:Socket_Strip_Straight_1x03 Resistors_Terminal_Blocks:TerminalBlock_Pheonix_MKDS1.5-2pol Cennectors_Terminal_Blocks:TerminalBlock_Pheonix_MKDS1.5-2pol Resistors_THT:R_Axial_DIN0207_L6.3mm_D2.5mm_P7.62mm_Horizontal	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:C device:CP atmel:AVR-ISP-6 device:LED device:LED device:LED conn:Conn_01x03 conn:Conn_01x02 conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x05 conn:Conn_01x05 conn:Conn_01x06 conn:Conn_01x07 conn:Conn_01x08 device:R	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf Datasheet Datasheet
Item 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 C501 C203 C202; C408; C409 C501 C504 CON401	Yes	1k 1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP 1N4148 LRTBG6TG LED1 LED2 Bus IR LED Button Power Power Port D Port B Port C ADC6 ADC7 6.5V-12V 5V 1k 150 10k	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_GFP:TGFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03 Diodes_SMD:D_SOD-123 ledbox-newfootprints:LED-6-BIG LEDs:LED_0805 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_2x05 Pin_Headers:Pin_Header_Straight_2x03 Socket_Strips:Socket_Strip_Straight_2x04 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x04 Socket_Strips:Socket_Strip_Straight_1x03 Resistors_TErminal_Blocks:TerminalBlock_Pheonix_MKDS1.5-2pol Cennectors_Terminal_Blocks:TerminalBlock_Pheonix_MKDS1.5-2pol Resistors_SMD:R_0805 Resistors_SMD:R_0805	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:CP device:CP atmel:AVR-ISP-6 device:LED device:LED device:LED conn:Conn_01x03 conn:Conn_01x02 conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x05 conn:Conn_01x05 conn:Conn_01x06 conn:Conn_01x06 conn:Conn_01x07 conn:Conn_01x08 conn:Conn_01x08 conn:Conn_01x08 conn:Conn_01x09 conn:Conn_01x09 conn:Conn_01x09 conn:Conn_01x08 conn:Conn_01x09 conn:Conn_01x08 conn:Conn_01x08 conn:Conn_01x09 conn:Conn_01x09 conn:Conn_01x09 conn:Conn_01x09 conn:Conn_01x09 conn:Conn_01x09 device:R device:R	http://www.ti.com/lit/ds/symlink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf Datasheet Datasheet
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Item 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	R401 R402 R403 R501 SW301 SW302 SW303 U201 U301 U401 U501 Y401 C501 C203 C202; C408; C409 C501 C504 C504 CON401 C	Yes	1k 1k 1k 1k 1k 430 Reset Push 1 Push 2 ST485C ULN2003 ATMEGA88-20AU AZ1117-5.0 20MHz Value 10u 22p 470p 100n 4u7 47u AVR_ISP 1N4148 LRTBG6TG LED1 LED2 Bus IR LED Button Power Power Power Port D Port B Port C ADC6 ADC7 6.5V-12V 5V 1k 150 10k 100	Resistors_SMD:R_0805 Resistors_SMD:R_0805 Resistors_SMD:R_0805 Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Buttons_Switches_THT:SW_PUSH_6mm_h5mm Housings_SOIC:SOIC-8_3.9x4.9mm_Pitch1.27mm Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm Housings_GOFP:TOFP-32_7x7mm_Pitch0.8mm TO_SOT_Packages_SMD:SOT-223-3Lead_TabPin2 Crystals:Crystal_HC49-SD_SMD Footprint Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_SMD:C_0805 Capacitors_THT:CP_Radial_D5.0mm_P2.00mm Capacitors_THT:CP_Radial_D6.3mm_P2.50mm Pin_Headers:Pin_Header_Straight_2x03 Diodes_SMD:D_SOD-123 ledbox-newfootprints:LED-6-BIG LEDs:LED_0805 LEDs:LED_0805 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x03 Pin_Headers:Pin_Header_Straight_1x03 Socket_Strips:Socket_Strip_Straight_1x02 Socket_Strips:Socket_Strip_Straight_1x03 Resistors_Terminal_Blocks:TerminalBlock_Pheonix_MKDS1.5-2pol Connectors_Terminal_Blocks:TerminalBlock_Pheonix_MKDS1.5-2pol Resistors_SMD:R_0805 Resistors_SMD:R_0805 Resistors_SMD:R_0805	device:R device:R device:R switches:SW_Push switches:SW_Push ledbox-newsymbols:SN75176B interface:ULN2003 atmel:ATMEGA88-20AU regul:AZ1117-5.0 device:Crystal LibPart device:C device:C device:C device:CP device:CP atmel:AVR-ISP-6 device:LED device:LED device:LED conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x03 conn:Conn_01x04 conn:Conn_01x03 conn:Conn_01x02 device:R device:R device:R	http://www.ti.com/lit/ds/symllink/ulq2004a.pdf http://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-2545-8-bit-AVR-Microcontroller-ATmega48-88-168_Datasheet.pdf Datasheet Datasheet
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