5 Additional Information

5.1 General Specifications

Specification	5V	3.3V
Physical Dimensions	Length: 1.625" Width: 0.7" Height: 1.0"	Length: 1.5" Width: 0.75" Height: 0.875"

I/O Pins	11 Digital I/O pins –
	 9 w/ add'l features:
	  -5 Analog Input
	  -3 Analog Output (1 on Rev3 boards)
	  -3 Pulse counter (1 on Rev3 boards)
	  -2 Serial Communication
	  -2 I2C (DS1631 temperature sensors)
		17 Digital I/O pins –
		10 w/ add'l features:
		  -6 Analog
		  -2 Serial Communication
		  -2 I2C (DS1631 temperature sensors)

Programming Method	HTML for custom web content	
Supported Network Protocols	HTTP – View HTML pages/send CGI UDP – Command interface, IP broadcasts SMTP – Email TFTP – Uploading/download HTML pages ICMP – (Ping) DHCP	
Network Medium	Ethernet 10Mbps Half Duplex (IEEE 802.3)	

Specification	3.3V WIFI
Physical Dimensions	Length: 2.015" Width: 0.9" Height: 0.42"

I/O Pins	17 Digital I/O pins –
	16 w/ add'l features:
	  -6 Analog
	  -4 Analog Output
	  -4 Pulse counter
	  -2 Serial Communication
	  -2 I2C (DS1631 temperature sensors)

Programming Method	HTML for custom web content
Supported Network Protocols	HTTP – View HTML pages/send CGI UDP – Command interface, IP broadcasts SMTP – Email TFTP – Uploading/download HTML pages ICMP – (Ping) DHCP
Network Medium	Wi-Fi 802.11b

5.2 Electrical Specifications

Specification	5V Ethernet	
	Minimum	Maximum
Supply Voltage (Vdd)	4.5V	5.5V
Supply Current[1]	175mA @ 5V	N/A
Specification	3.3V Ethernet	
	Minimum	Maximum
Supply Voltage (Vdd)	3.1V	3.6V
Supply Current[1]	150mA @ 3.3V	N/A
Specification	3.3V WIFI	
	Minimum	Maximum
Supply Voltage (Vdd)	3.1V	3.6V
Supply Current[1]	200mA	N/A

[1]Minimum supply current needed for EZ WEB LYNX with no peripherals (LEDs, temperature sensor, etc)

5.3 Host Inter-connects

Specification	5V Ethernet (Rev3 and earlier)	
	Minimum	Maximum
Input Low Voltage (Digital)		
Pin 1-7, 10, 11	GND	0.8V
Pin 8, 9	GND	0.2*VDD
Reset2	GND	0.2V
Input High Voltage (Digital)		
Pin 1-7, 10, 11	2.0V	VDD
Pin 8, 9	0.8*VDD	VDD
Output Low Voltage (Digital)	GDD	0.6V
Output High Voltage (Digital)	VDD-0.7V	VDD
Pin Current Source (Output)		25mA
Pin Current Sink (Output)		25mA

Specification	5V Ethernet (Rev5 and later)	
	Minimum	Maximum
Input Low Voltage (Digital)		
Pin 1, 2, 5-9	GND	VDD
Pin 3, 4, 10, 11	GND	VDD
Reset	GND	VDD
Input High Voltage (Digital)		
Pin 1-7, 10, 11	2.0V	VDD
Pin 8, 9	0.8*VDD	VDD

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Output Low Voltage (Digital)	GDD	0.6V
Output High Voltage (Digital)	VDD-0.7V	VDD
Pin Current Source (Output) Pin 1-5 Pin 6-11		2mA 25mA
Pin Current Sink (Output) Pin 1-5 Pin 6-11		2mA 25mA

Specification	*3.3V Ethernet*	
	Minimum	Maximum
Pin 1-6, 8, 9, Reset2 Pin 7, 10-17	GND GND	0.2*VDD 0.8V
Input High Voltage (Digital) Pin 1-6, 8, 9 Pin 7, 10-17	1.7V 0.8*VDD	VDD VDD
Output Low Voltage (Digital)	GND	0.4V
Output High Voltage (Digital)	2.4V	VDD
Pin Current Source (Output) Pin 1-7 Pin 8-17		2mA 25mA
Pin Current Sink (Output) Pin 1-7 Pin 8-17		2mA 25mA

Specification	*3.3V WIFI*	
	Minimum	Maximum
Input Low Voltage (Digital) Pin 1-9, 12-17 Pin 10, 11 Reset2	GND GND GND	0.8V 0.15*VDD 0.2*VDD
Input High Voltage (Digital) Pin 1-6 Pin 7-9, 12-17 Pin 10, 11 Reset2	0.8V 0.8V 0.25*VDD 0.8VDD	VDD 5.5V 5.5V VDD
Output Low Voltage (Digital)	GND	0.4V
Output High Voltage (Digital)	2.4V	VDD
Pin Current Source (Output) Pin 1-6, 12, 13 Pin 15, 17 Pin 7-11, 14, 16		2mA 8mA 25mA
Pin Current Sink (Output) Pin 1-6, 12, 13 Pin 15, 17 Pin 7-11, 14, 16		2mA 8mA 25mA

[2] Voltage level to force the device to reset