

NEXUS™ SERIES WIRELESS MODULES

- JUNO™ WIRELESSUSB™ MODULES

The Wireless connectivity buzz is here and so too are Unigen's Juno™ WirelessUSB™ modules!

Nexus Cuts the Cords!



UGWR2US
Juno - LPA Module

WirelessUSB Advantages:

- A low-cost 2.4GHz adaptation of the Universal Serial Bus for connecting a variety of low-data rate devices to host systems
- A drop-in design solution using native HID Operating System drivers to seamlessly enumerate and operate mouse, keyboard, and gaming devices
- Easy integration via a simple SPI interface for a host of consumer electronic and traditional computer input devices

Juno WirelessUSB Modules:

- Are production ready for a variety of applications and communications ranges
- Conform to international regulatory, radio, and SIG agency requirements
- Need only the addition of suitable power source and antennae
- Are low-power for long battery life and highly reliable ensuring data integrity

FCC Radio Certification:

The Radio certification is available on the FCC web site and may be "grandfathered" into your design. However, customers will need to submit their end-product for individual compliance certification.

Extended Range:

Juno modules are available for a variety of applications. Long range models (up to 2/3's of a mile) are ideal for industrial, commercial and outdoor data collection needs.

Feature	Benefit
> Cypress Semiconductors WirelessUSB™ devices CYWUSB6934 LS 2.4GHz DSSS Radio SOC CYWUSB6935 LR 2.4GHz DSSS Radio SOC CYWUSB6935 LR with Power Amplification	> Industry leading USB integration solutions Rated 10 meter operation Rated 50 meter operation Rated 1000 meter operation
> 62.5Kb/sec data rate	> High redundancy and surety of data transfer
> 2.4 – 2.483GHz DSSS Radio	> Collision avoidance and interoperation with other 2.4GHz technologies
> No proprietary software	> Uses native OS drivers, and no device royalty
> SMT or Through-hole mounting	> 2-layer to multi-layer PCB applications supported
> Vertical or Horizontal Orientation	> The right "fit" for your system
> ~ 1sq." form factor	> Useful in hand held and SBC systems
> FCC/EU/ETSI/Industry Canada agency certified	> Radio Certification "grandfathered" to new devices

Like all Unigen modules, Nexus Wireless products are manufactured in our ISO9000-2000 recognized facilities and are specifically designed, built, and validated to our stringent and exacting standards. Unigen Nexus products are reliable, cost effective and receive the same lifetime guarantee as all Unigen module products.

JUNO™ WIRELESSUSB™ DEVICE MODULES

Nexus Juno WirelessUSB Specifications	
Size (Juno B):	0.95"x1.00" PCB
Size (Juno L):	0.90"x1.10" PCB
Size (Juno LPA):	1.30"x1.29" PCB
Size (Juno M):	0.66"x0.98" PCB
Orientation:	Horizontal/Mirrored/Vertical
Connectors:	Bare (ribbon cable ready), Through Hole and Right angle Through Hole
Supply Voltage:	2.7 to 3.6 V _{DC}
Operating Frequency:	2.4 GHz to 2.483GHz
Module Data Input:	SPI
Current Consumption:	<ul style="list-style-type: none"> • Transmitting <ul style="list-style-type: none"> • 140mA – Peak (LPA Model) • Receiving <ul style="list-style-type: none"> • 60mA – Peak (LPA Model)
Environmental:	<ul style="list-style-type: none"> • Shock <ul style="list-style-type: none"> • ETSI EN300 019-2-3 • Vibration (25-2KHz) <ul style="list-style-type: none"> • EIC 60068-2-6
Power Consumption:	<ul style="list-style-type: none"> • Operating <ul style="list-style-type: none"> • <6.0mA • Stand-by <ul style="list-style-type: none"> • <0.30µA
Temperature:	<ul style="list-style-type: none"> • Operating <ul style="list-style-type: none"> • -40°C to 85°C • Storage <ul style="list-style-type: none"> • -40°C to 85°C
Humidity:	<ul style="list-style-type: none"> • Operating <ul style="list-style-type: none"> • 10% to 90% RH NC @ 50° C • Storage <ul style="list-style-type: none"> • 5% to 90% RH NC @ 60° C
MTBF:	>43,800 hrs.
Warranty:	Life-time



UGWB1US
Juno – B Module



UGWL1US
Juno – L Module



UGWM1US
Juno - M Module



Nexus™ Juno™ Module Family

Unigen Nexus™ product details are available by contacting your Unigen Sales Representative and on the Unigen Web Site, www.unigen.com. Cypress Semiconductor Products are available on the Cypress Web Site, www.cypress.com.

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The Unigen Value-Add:

Unigen's Nexus products are an ideal compliment to our other OEM module products and services. We are devoted to excellence in manufacturing and servicing of our customers' needs.