

**Juno™ UGWB&L, 1&2US
Short Range & Medium Range
WirelessUSB™ Modules**



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Juno Modules – Overview

- *Based on Cypress WirelessUSB™ Technology*
- *"Drop-in" 2.4GHz Radio Modules*
- *Operates with other 2.4GHz Solutions*
 - *Co-location with WiFi, Bluetooth, Proprietary*
- *Uses OS Native HID Drivers*
 - *No proprietary OS stack or kernel drivers*
- *Customer Specific Solutions Available*
- *Low-Cost!*

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**Juno – Short-Range Overview
UGWB/L1US**

- *Based on Cypress CYWUSB6934 LS Series Radio SOC Silicon*
- *10-Meter Rated Range*
 - *Anecdotal evidence of up to 30-meters*
- *Several Years of Battery Life*
 - *1-3.6V Lithium = ~4.5 to ~7.5 years*
 - *3-AAV Alkaline = ~11.75 to ~20 years*
- *Integrated Chip or off Board Antenna*
- *Low-Cost!*
 - *Less than USD\$6.00 at 10K/Mo.*


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Juno – Mid-Range Overview
UGWB/L2US


- Based on Cypress CYWUSB6935 LR Series Radio SOC Silicon
- 50-Meter Rated Range
 - Anecdotal evidence of up to 150-meters
- Several Years of Battery Life
 - 1-3.6V Lithium = ~4.5 to ~7.5 years
 - 3-AAV Alkaline = ~11.75 to ~20 years
- Integrated Chip or off Board Antenna
- Low-Cost!
 - Less than USD\$7.00 at 10K/Mo.

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Module Features
Juno B Series



In Production Now!


- Complete Radio with Integrated Antenna
 - No additional components needed
 - Optional off-board coaxial antenna
- Designed for direct PCB application
 - Header or SMT connection to host device
- <1”sq. in Size
 - Very compact design for smallest peripherals
- FCC and International Agency Approved!
 - Achieved “Modular Approval”
 - Transferable to OEMs
 - No additional shielding required

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Module Features
Juno L Series



In Production Now!

- Complete Radio with Integrated Antenna
 - No additional components needed
 - Option for off-board coaxial antenna
- Designed for direct or off PCB application
 - Header, SMT, or cabled connection to host device
- 1”sq. in Size
 - Designed for remote mounting where RF interference from the device would inhibit TX/RX signaling
- FCC and International Agency Approved!
 - Achieved “Modular Approval”
 - Transferable to OEMs
 - No additional shielding required

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Juno – Short-Range Applications

10M Distance Rating

- Low quiescent current equals ~10 years of battery life
- Use in any HID compliant peripheral device
 - Keyboards
 - Mice
 - Game Pads
 - PDA synch cradles
 - Other??

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Juno – Mid-Range Applications

50M Distance Rating

- Typical quiescent current equals ~6 years of battery life
- Use HID drivers for computer integration, faster deployment
 - Game Consoles
 - Mechanical Animals
 - Universal Home Remote (Lights, TV, HVAC, Garage, etc)
 - Slot Machines
 - Industrial/Warehouse
 - Other??



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Juno-B Usage

- Intended for direct PCB application
 - Dual Row Headers
 - 2 - 1X6 0.100” headers
 - Integrated Chip Antenna
 - Requires no external ID change
 - Optional Coaxial Antenna
 - Useful for “noisy” or RF “challenged” devices
 - Standard or Mirrored
 - Inward or Outward component placement
- Ideal in Small Devices
 - Mouse
 - Limited internal ID
 - Integrated Antenna for true “wire-free” application
 - Game Pad
 - Small package allows for use in various ID configurations

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Unigen Corp. Juno - Short, Medium Range Module Presentation Hand Outs

Juno-L Usage

- Intended for direct or off-PCB placement
 - Dual Row Header
 - 2X6 0.100" headers
 - Bare Board
 - Ribbon-Cable or direct PCB solder ready
 - Integrated Chip Antenna
 - Requires no external ID change
 - Optional Coaxial Antenna
 - Useful for "noisy" or RF "challenged" devices
 - Standard or Mirrored
 - Inward or Outward component placement
- Ideal for Keyboard or other larger devices
 - Location in device to avoid ID changes



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Antennae Options



UGADL1B1M1xxx
Dipole Antenna Module, 3.5" Desktop

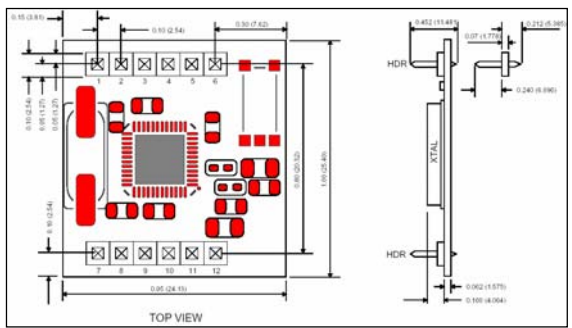


UGADA0B1M1xxx
Dipole Antenna Module, 4" Swivel Whip

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Juno - B (PN-UGWB1/2US)



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