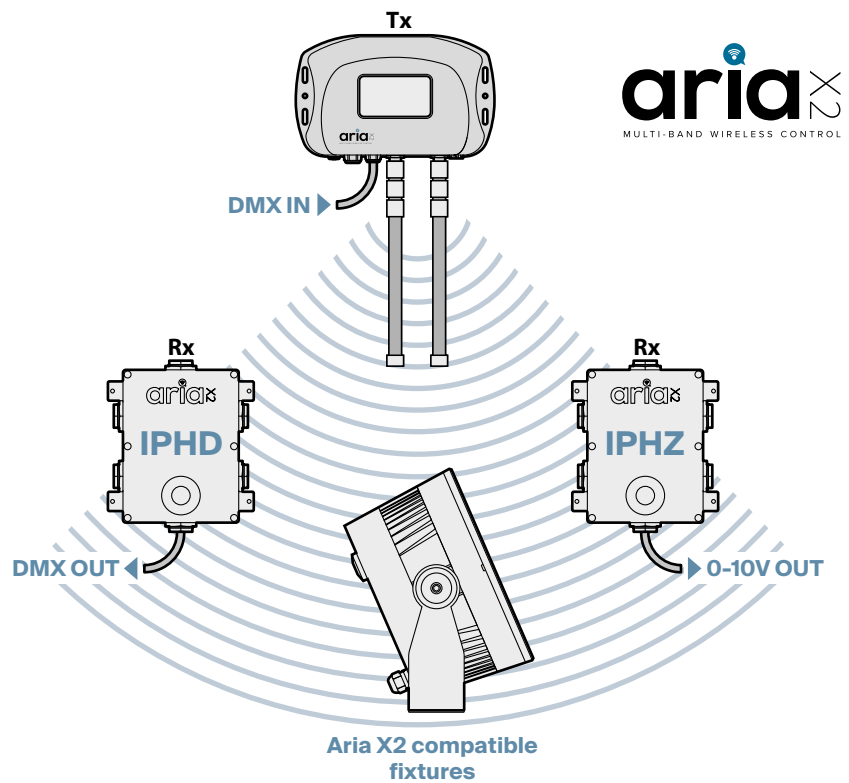


PROJECT \_\_\_\_\_ FIRM \_\_\_\_\_ ORDER # \_\_\_\_\_ TYPE \_\_\_\_\_ QTY \_\_\_\_\_



**Aria X2™** is an innovative wireless control system engineered to unite your installation. A single Aria X2 transmitter can remotely orchestrate many devices, such as Aria X2 IPHD receivers that output DMX, Aria X2 IPHZ receivers that link to 0-10V devices, or the expanding range of Acclaim Lighting fixtures that are directly Aria X2 compatible. Multiple frequency bands are available on each unit to provide optimal operation in a range of installation conditions and all units are housed in tough IP66-rated enclosures for all weather protection.



## At a glance

<p><b>Power input</b></p> <p>100 to 277VAC 50/60Hz</p>	<p><b>Range</b></p> <p>Up to 2000 feet (610m)</p>	<p><b>Temperature</b></p> <p>-40° F to 113° F -40° C to 45° C</p>	<p><b>Protection</b></p> <p>Ingress: IP66 (wet location)</p>	<p><b>Wireless protocols</b></p> <table border="0"> <tr> <td>ZigBee (2.4GHz to 2.5GHz)</td> <td>Bluetooth (2.4GHz to 2.5GHz)</td> <td>Sub-GHz (866MHz to 924MHz)</td> </tr> </table>	ZigBee (2.4GHz to 2.5GHz)	Bluetooth (2.4GHz to 2.5GHz)	Sub-GHz (866MHz to 924MHz)
ZigBee (2.4GHz to 2.5GHz)	Bluetooth (2.4GHz to 2.5GHz)	Sub-GHz (866MHz to 924MHz)					


## Order codes

- AX2IPHT** Aria X2 IPH transceiver
- AX2IPHB** Aria X2 IPH bridge (communicates to X2 and legacy SM220 receivers)
- AXIPHXDR** Aria X2 IPHD receiver with DMX output in a tough JBOX casing
- AXIPHXZR** Aria X2 IPHZ receiver with 0-10V output in a tough JBOX casing



PROJECT	FIRM	ORDER #	TYPE	QTY
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## Specifications

<b>Power input</b>	100-277VAC, 50/60Hz
<b>Maximum power consumption</b>	1.7W @ 120VAC, 2.1W @ 230VAC
<b>Wireless protocols</b>	Zigbee: 2405 to 2480MHz Bluetooth: 2402 to 2480MHz Sub-GHz: 866.6MHz plus 906 to 924MHz
<b>Estimated transmission range</b>	Clear line of sight: 2000 feet (610m) Through obstructions: 300 feet (91m)
<b>DMX universes</b>	One per transceiver set, maximum of 8 simultaneously
<b>Max number of receivers</b>	200 (to ensure optimum data transmission)
<b>System security</b>	Password protection
<b>Ambient temperature range</b>	-40° F to 113° F (-40° C to 45° C)
<b>Ingress protection</b>	IP66, wet location (not including cable end feeds)
<b>Housing</b>	Die cast aluminum
<b>Dimensions</b>	See pages 4 and 5
<b>Certifications</b>	

## Aria X2 frequency bands

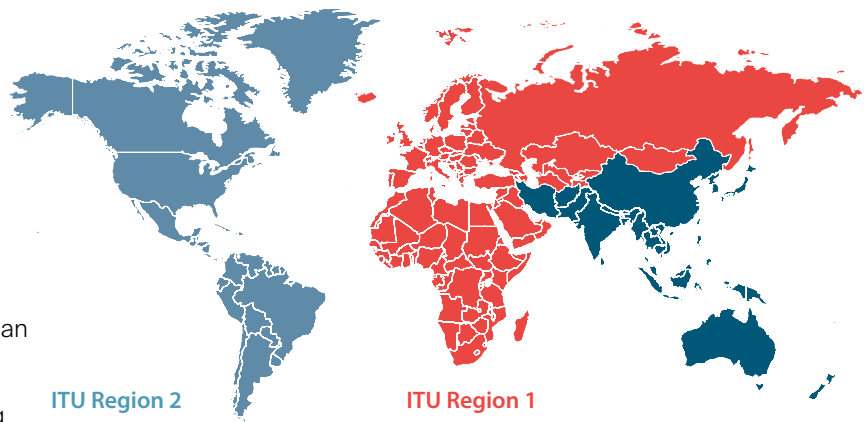
The Aria X2 standard provides a choice of three separate wireless frequency bands:

- **2.4GHz** - (2404-2480MHz) - This licence-free radio band is approved for use in most countries worldwide and provides good results in most areas. *Note: The X2 2.4GHz band is not supported by the first generation (single band) Aria transmitters.*
- **900MHz (NA)** - (902-928MHz) - This licence-free radio band is approved for use across the Americas, Greenland and some of the eastern Pacific Islands (see map below), overseen by the FCC. This option can only be used in countries located within **ITU Region 2**.
- **900MHz (EU)** - (863-870MHz) - This licence-free radio band is approved for use across the Europe, Africa, the Commonwealth of Independent States, Mongolia and the Middle East west of the Persian Gulf, including Iraq (see map below). This option can only be used in countries located within **ITU Region 1**.

### Choosing the appropriate frequency band

The **2.4GHz** band provides good results, particularly for outdoor installations. However, this frequency range can become congested in areas where other devices, particularly Wi-Fi equipment are also in use. You are advised to use the 2.4GHz band unless you encounter frequency congestion or issues interference by obstacles.

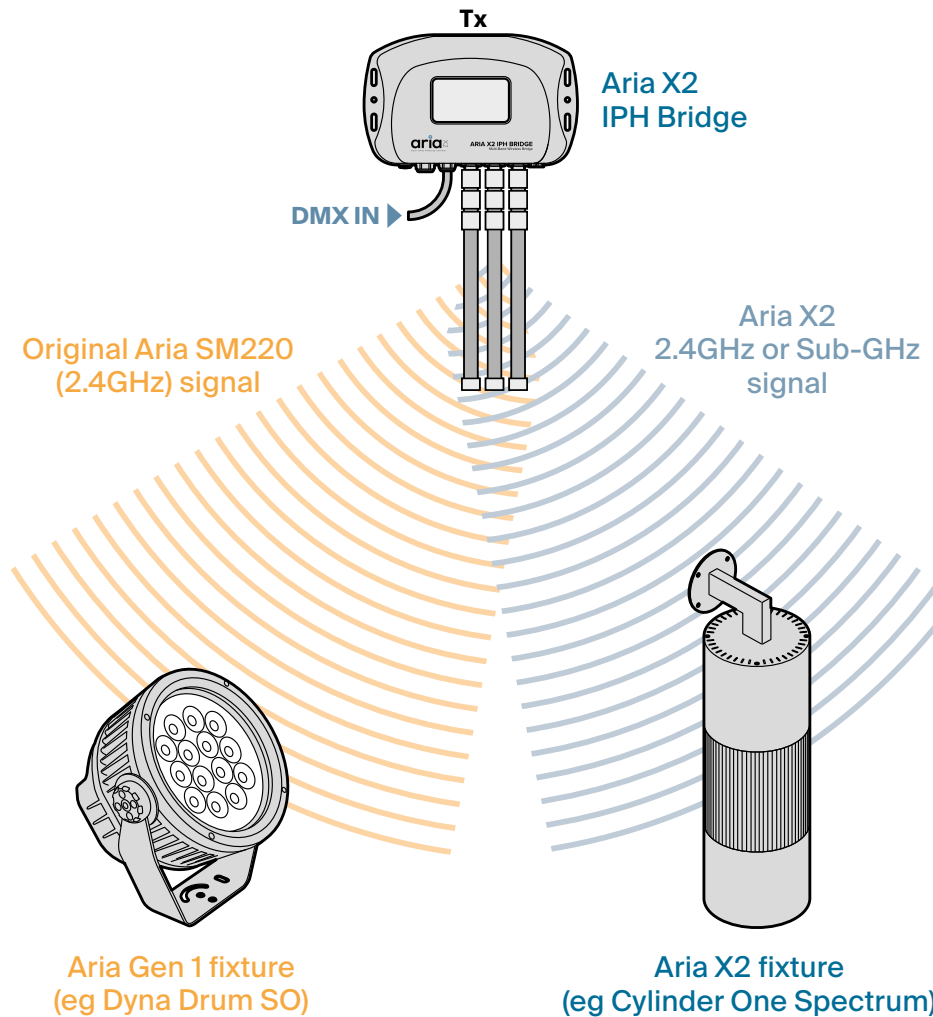
If your installation is located in ITU regions 1 or 2, then the **Sub-GHz (900MHz)** bands become a possible alternative. Their lower frequency, longer wavelength transmission characteristics can provide improved obstacle penetration than the 2.4GHz band and they can be advantageous for indoor installations where Wi-Fi use is prevalent. Both Sub-GHz bands are susceptible to interference from other license-exempt transmitting devices using the same frequency space.



PROJECT	FIRM	ORDER #	TYPE	QTY
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## Mixing Aria Gen 1 (SM220) and Aria X2 devices

Some older Acclaim Lighting fixtures (such as Dyna Drum SO, Cylinder One HO, etc) have built-in Aria Gen 1 (SM220) receivers, which are not directly compatible with Aria X2 transmitters. If older fixtures need to be wirelessly controlled alongside Aria X2 fixtures, then you will need to install an Aria X2 IPH Bridge. This multi-function device can output the original Aria SM220 (2.4GHz) signal at the same time as an Aria X2 signal: either at 2.4GHz or using a Sub-GHz band.



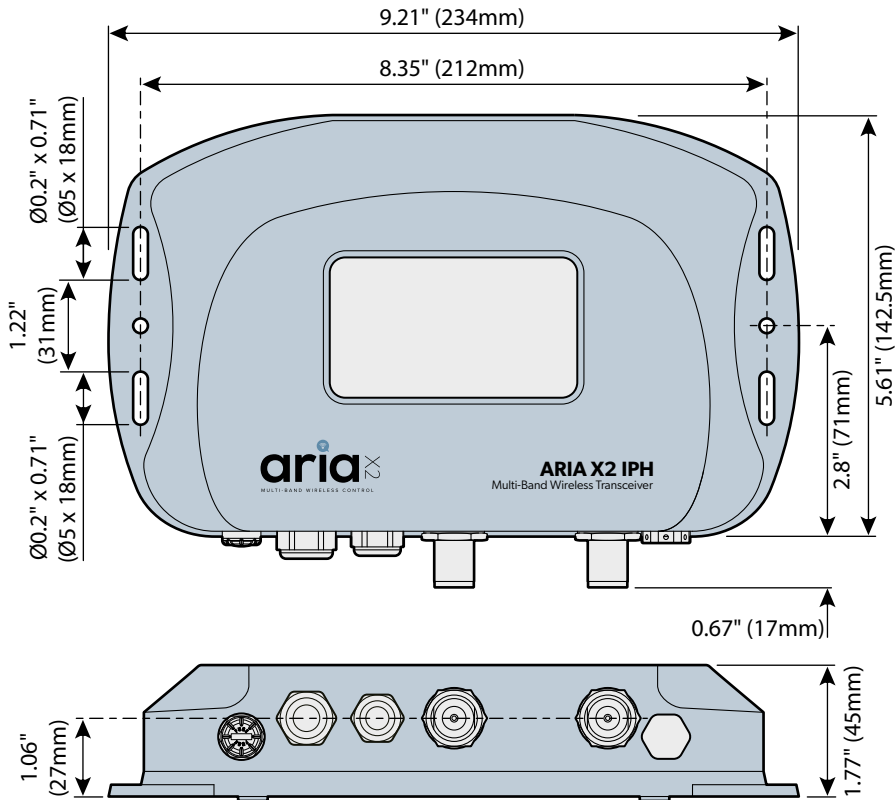
### Always carry out a spectrum analysis

Prior to using the Aria™ X2 wireless feature, we strongly recommend that you perform a spectrum analysis of the on site radio frequencies to ensure the system will function correctly at the planned location.

PROJECT	FIRM	ORDER #	TYPE	QTY
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## Dimensions

### IPH transceiver (and bridge)

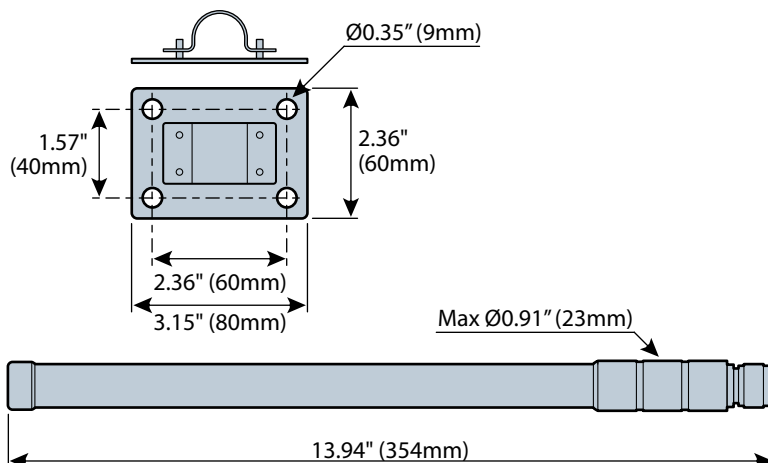


### Weights

IPH Transceiver: 2.97 lbs (1.35 kg)

IPH Bridge: 3.13 lbs (1.42 kg)

### Antenna and bracket



### Weights

2.4GHz antenna: 5.2oz (149g)

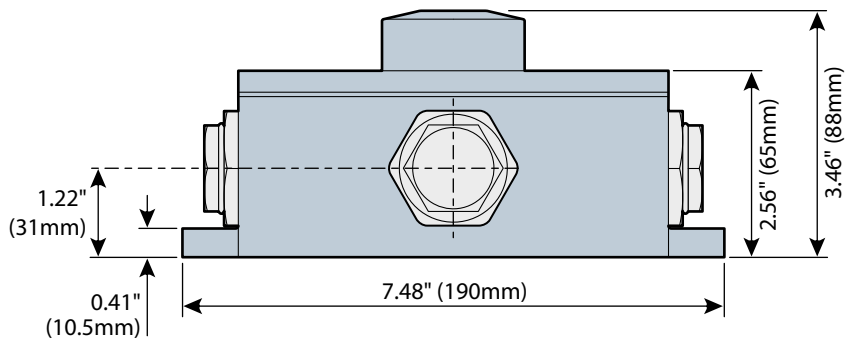
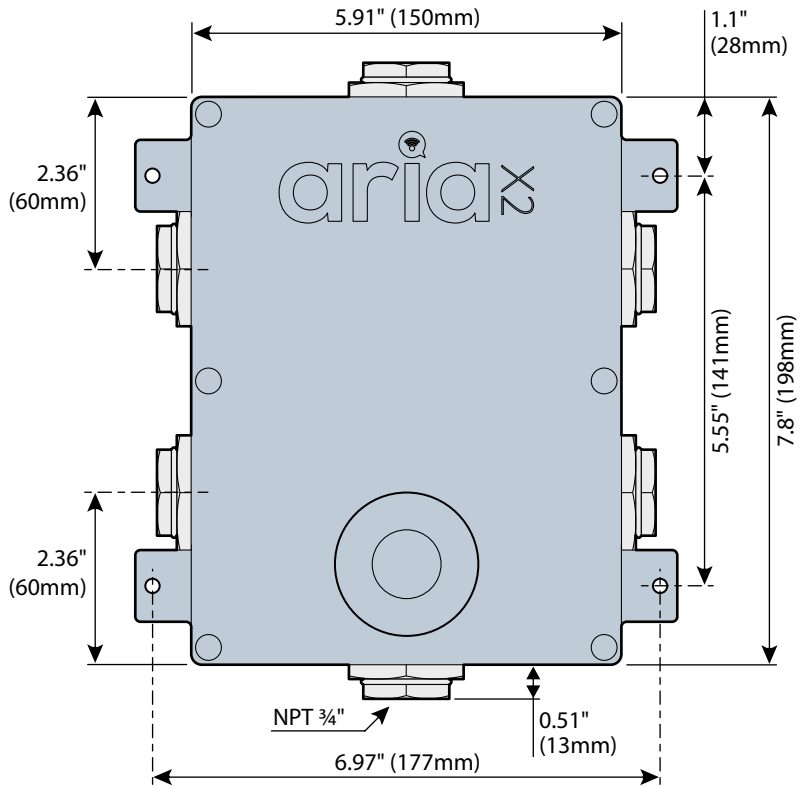
900MHz antenna: 4.72oz (134g)

Bracket & U-bolts: 8.46oz (240g)

PROJECT	FIRM	ORDER #	TYPE	QTY
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## Dimensions

IPHD and IPHZ receivers



**Weight:** 5.04 lbs (2.29 kg)

For full installation details, please refer to the **user guide**, available for free download here:

