

UniFi Building Bridge

60 GHz Gigabit+ Wireless Bridge Kit

The UniFi Building-to-Building Bridge, model UBB, is the ideal solution for high-throughput connectivity with a range of up to 500 m. Integration with the UniFi Controller makes bridging two networks seamless.

Comprised of two pre-paired endpoint devices, the UBB delivers a Point-to-Point (PtP) link – up to 1.7+ Gbps bi-directional – using 802.11ad technology on the low-interference 60 GHz radio band. For backup, a 5 GHz radio using 802.11ac technology is available.



60 GHz Operating Frequency

The 60 GHz band attenuates quickly due to atmospheric absorption. When a 60 GHz radio – such as the UBB – uses a highly directional antenna, interference from other directions is also attenuated. The 60 GHz band thus offers extremely high transmission capacity as a wireless wire.

Wireless Link Redundancy

60 GHz is highly directional and any obstacle in the line of sight – even rain – can drop signal levels. To maintain connectivity, the UBB can fail over to the 5 GHz radio. The 5 GHz radio band propagates better and uses radio wave reflections and refractions more effectively, although it offers lower maximum throughput.

Pre-Paired Configuration

Setup is quick and easy: the UBB radios are pre-paired out of the box so you can use the UniFi app for simultaneous adoption. The UniFi Controller software enables intuitive management of individual UniFi devices and site-wide deployments.

Sleek Industrial Design

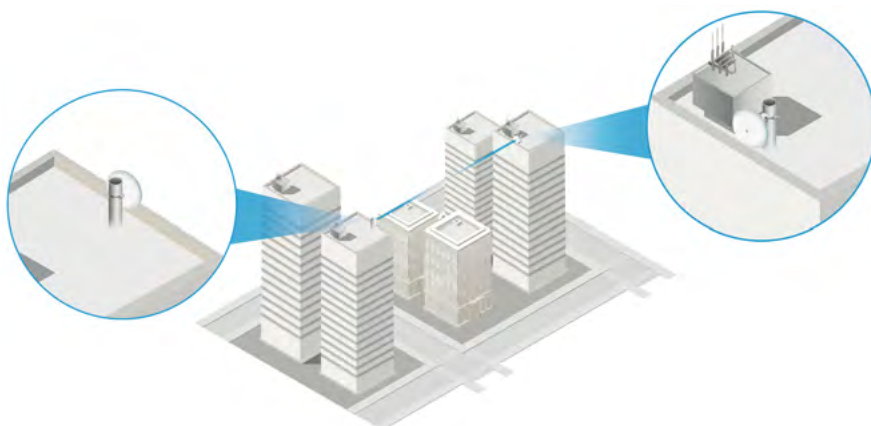
The UBB is designed with a compact form factor for discreet integration into any environment.

Convenient Alignment

The UBB pivots on its ball joint 3-axis mount for easy aiming.

Mounting Versatility

No fasteners are required for pole-mounting, and a single wall fastener (not included) is required for wall-mounting. A wall mount kit, model NBE-WMK, is available as an optional accessory to enhance stability.



Specifications:

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Dimensions	140 x 140 x 90 mm (5.51 x 5.51 x 3.54")
Weight	376 g (13.3 oz)
Antenna Gain 2.4 GHz (BLE) 5 GHz 60 GHz	2 dBi 10 dBi 17,2 dBi
GPS	Yes
Max. TX Power (EIRP) 5 GHz 60 GHz	25 dBm 32 - 36,5 dBm
60 GHz Elevation Beamwidth	30°
60 GHz Azimuthal Coverage	±60°
Interfaces Networking Management	(1) 10/100/1000 Ethernet Port Bluetooth
Enclosure	UV-Resistant Polycarbonate
Power Method	802.3af Supported Passive Power over Ethernet (48V)
Power Supply	UniFi PoE Switch 48V, 0.32A Gigabit PoE Adapter (Included)
Max Power Consumption	11W
Wind Loading	56 N @ 200 km/h (12.6 lbf @ 125 mph)
Wind Survivability	200 km/h (125 mph)
Mounting	Pole-Mount (Kit Included) Wall-Mount (Not Included)
ESD/EMP Protection	± 24kV Contact/Air
Operating Temperature	-40 to 60° C (-40 to 140° F)
Operating Humidity	5 to 95% Noncondensing
Certifications	CE, FCC, IC

Operating Frequency (GHz)	
Worldwide	5.150 - 5.875 57 - 66
US/CA	U-NII-1: 5.150 - 5.250 U-NII-3: 5.725 - 5.850 57 - 66

Bluetooth (GHz)	
Worldwide	2.400 - 2.4835