

Network 260

mmWave 5G Outdoor Repeater

SKU: 460081

FEATURES

- 39 GHz cell signal repeater.
- Receives 5G source signals from up to 10 km away.
- Supports up to 1GHz of instantaneous bandwidth.
- Amplifies beamwidths from +/-8° to +/-45°.
- Easily aimed dual-polarized donor and service units.
- Connects to LTE with a replaceable internal PCI Express Mini Card.
- Secure remote monitoring and management built-in.
- IP 67 rating for outdoor use.
- Minimal setup required.

About

The unique design of the **Network 260** allows it to extend or fill in 5G coverage outside.

Cutting-edge dielectric waveguide antenna technology, allows the Network 260 to efficiently extend 5G coverage to multiple, simultaneous users in a wide area. With built-in dual-polarization that supports MIMO, throughput to any user can be doubled.

The donor antenna receives source signals from up to 10 km from the originating gNB. While the server antenna supports up to 1 GHz of instantaneous bandwidth. The hardware can be configured to broadcast a variety of beamwidths, from +/-8 to +/-45. This flexibility allows coverage to be amplified both in line-of-sight and non-line-of-sight applications.

As a layer zero repeater, it's rapidly deployed anywhere outside with power. No additional backhaul connectivity is required. The customizable and durable system withstands rugged environments and extreme temperatures with an IP67 rating.


Remote management services are readily available with LTE connectivity via a replaceable, internal mini card. Telemetry data is available in real-time, alerts are automated, and manual adjustments can be made from any cellular connected device.

ALL INFORMATION SHARED IN THIS DOCUMENT
IS CONSIDERED CONFIDENTIAL AND SHARED
ONLY UNDER A NON-DISCLOSURE AGREEMENT.



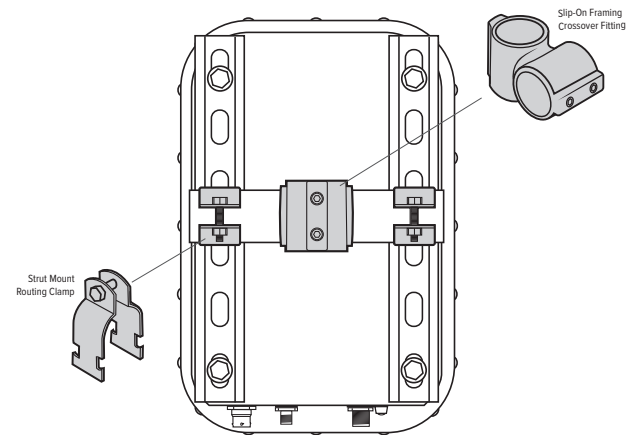
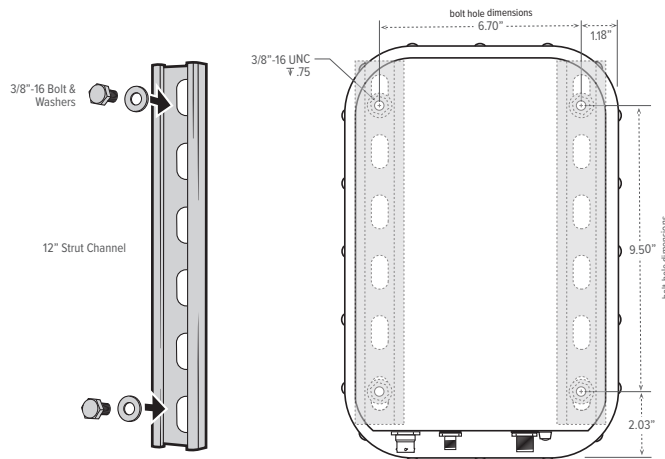
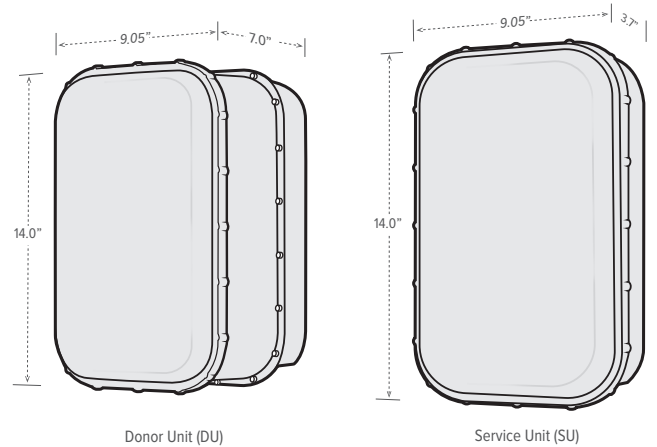
Specifications

SKU	460081*
Power Frequency of Operation	37.6 - 40 GHz (Band n260)
Latency	< 40 nSec
Typical Power Consumption	65 Watts
Max End to End Gain	100 dB
Weight Donor Unit (lbs)	6.25
Weight Service Unit (lbs)	5.5
Tunable Gain Range (UL or DL)	60 dB
Donor Unit Scan Envelope (Az/EI)	N/A
Donor HPBW (Az/EI)	15° / 15°
Service Unit HPBW (Az/EI)	70° / 70°
Noise Figure (DL/UL)	5dB / 5dB
Power Supply	100 - 240 VAC
Operating Temperature	-40 / +55 Celsius
Max EIRP (DL/UL)	33dBm / 39dBm / 46dBm
Connect Protocol	USB
Dimensions Donor Unit (in)	9.0 x 13.5 x 6.1
Dimensions Service Unit (in)	9.0 x 13.5 x 3.2

*  **WARNING:** This product can expose you to chemicals including Nickel, which is known to the State of California to cause cancer, and Bisphenol A, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Mounting

The SU and DU are designed to be mounted with standard universal strut channel (Unistrut) mounting brackets. Unistrut mounting is a standardized off-the-shelf method used in a wide-variety of applications, selected here for its flexibility in supporting multiple installation models. If the included equipment isn't a perfect fit for the use case, other options could easily be obtained from WILSON CONNECTIVITY or 3rd-party Unistrut suppliers. The units are typically mounted on a pole but can be mounted to any surface that enables a direct line of sight to the gNB for the DU and a direct line of sight to the service area requiring extended coverage for the SU.



Internal AC/DC Power Spec.

Rated Power	120W
Input Voltage Range (AC)	85 ~ 264VAC at 47 to 63 Hz
Input Voltage Range (DC)	120 ~ 370VDC
AC Current (Typ.)	2.0A / 115VAC and 1.0A / 230VAC
Protection Overload	115% ~ 160% rated output power
Over Temperature	Protection type: Shut down o/p voltage, re-power on to recover

Product is configured for either AC 85 to 264 VAC at 47-63Hz or DC 120 – 370 VDC input, as described in the AC & DC power ratings table (alternative inputs are available upon request).

Configurable to a lower voltage DC input if required.

Remote Management

- Software-configurable channel selection in 400 MHz and 800 MHz bandwidths.
- Supports up to 1GHz of instantaneous bandwidth.
- Amplifies beamwidths from +/-7.5° to +/-35°.
- Connects to LTE with a replaceable internal PCI Express Mini Card.
- IP 65 rating for outdoor use.