

# 8355P

5G uCPE (Universal CPE) Supports Wi-Fi 6 AX1800



<b>3GPP</b> Rel-16	<b>5G NR</b> sub-6 GHz	<b>4G LTE Cat. 19</b>	<b>NSA / SA</b> Modes	<b>Carrier Aggregation</b>	<b>MIMO</b> DL 4 X 4	<b>Wi-Fi 6</b>
<b>2FF SIM Card</b>	<b>Optional</b>	<b>Firewall</b>	<b>VPN</b>	<b>BECentral®</b> CloudEdge	<b>PoE(PD)</b>	<b>IP65</b>

## Ideal Use Cases

- Fixed Wireless Access (FWA)
- Last Mile Connectivity
- Private Networks
- Residential or SMB Users
- Remote Workers
- Delay Sensitive and Bandwidth Intensive Applications

The 8355P 5G Universal CPE (uCPE) features an innovative design enabling indoor and outdoor installation flexibility for optimal location placement for the best signal reception. The 8355P 5G uCPE offers exceptional performance with an industry-leading MIMO antenna design ensuring capacity and coverage regardless of placement. Powerful multi-core CPU and sub-6 GHz carrier aggregation up to 4CA DL and 2CA UL deliver ultra-high data rates and lower latency for the ultimate subscriber experience.

## Redefining Fixed Wireless Access

The 8355P supports 5G Sub-6 GHz and 4G/LTE with dual connectivity modes and standalone access (SA), benefiting from all 5G capabilities. Non-standalone access (NSA) is attached to a 4G network up to a gigabit speed to ensure a quick and flexible deployment to any 5G NR or LTE network.

## Subscriber Self-Installable

Many subscribers prefer the convenience and flexibility of self-installation over waiting for a technician to come, and operators benefit from reduced operational costs and faster deployments. Our mobile APP makes the setup of the 8355P simple. Customers are guided through where to position the 8355P, activation, and connect to the network.

## Supports Wi-Fi 6 AX1800 Wireless

Experience the ultra-fast, dual-band 802.11ax with speed of 1800Mbps. MU-MIMO-equipped. The 8355P is capable to communicate with multiple end devices simultaneously help to increase network efficiency of high-density networks.

## High Performance & Support for 5G NR & 4G LTE Networks

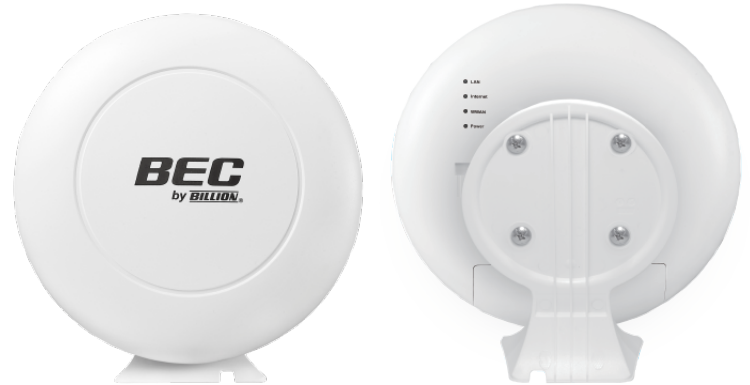
- **5G NR**  
3GPP Release 16 Compliant  
Carrier Aggregation: 4CA DL / 2CA UL  
Data Rate (Max):  
SA: 7.01Gbps (DL) / 2.5Gbps (UL)  
NSA: 5.67 Gbps (DL) / 1.46 Gbps (UL)

- **4G/LTE**  
LTE Category 19  
Carrier Aggregation: 5CA DL / 2CA UL  
Data Rate (Max): 1.6 Gbps (DL) / 211 Mbps (UL)

(The presented data rates are theoretical only, and the actual value depends on network conditions.)

## Compact Weatherproof Enclosure

- IP65 enclosure for protection against dust and water ingress
- Industrial-grade components for greater reliability
- Electrostatic Discharge (ESD) & Surge protection



## Advanced MIMO Antenna Technology

Operators need antenna technology to meet capacity and throughput demands in challenging deployment scenarios such as Fixed Wireless Access (FWA). The high-gain embedded 4X4 MIMO directional antenna ensures increased capacity, maximum bandwidth, and extended coverage.

## BECentral® CloudEdge Services

BECentral® CloudEdge is an Industry-leading cloud-based service platform designed to accelerate LTE and 5G Wireless WAN connectivity for deployments of any scale. The platform enables zero-touch provisioning and provides visual dashboards with real-time analytics, detailed reporting, historical analysis, performance monitoring, proactive alerts/notifications, and API extensibility for 3rd party integration.

## Patented Dual-Polarization & Dual Slant Antenna

- Embedded High-Gain 4x4 MIMO Antenna
- H-Plane & V-Plane Polarization
- Frequency Range: 600 MHz - 4200 MHz
- Maximum Peak Gain: 10 dBi
- Ensures exceptional RF performance for maximum bandwidth and coverage
- High isolation for stable and reliable connectivity

## Package includes

- Passive PoE Injector
- Desktop Stand
- Outdoor Mounting Kit

## Features & Specifications

### Supported Frequency Band\*1

#### • 5G NR sub-6 GHz (3GPP Rel-16)

##### EU version:

NSA: n1, n3, n5, n7, n8, n20, n28, n38, n40, n41, n75, n76, n77, n78

SA: n1, n3, n5, n7, n8, n20, n28, n38, n40, n41, n75, n76, n77, n78

##### NA version:

NSA: n2, n5, n7, n12, n13, n14, n25, n26, n30, n38, n41, n48, n66, n70, n71, n77, n78

SA: n2, n5, n7, n12, n13, n14, n25, n26, n29, n30, n38, n41, n48, n66, n70, n71, n77, n78

##### Carrier Aggregation:

4CA DL / 2CA UL

#### • 4G LTE (CAT 19 DL / CAT 18 UL)

##### EU version:

FDD: B1, B3, B5, B7, B8, B20, B28, B32

TDD: B38, B40, B41, B42, B43

##### NA version:

FDD: B2, B4, B5, B7, B12(17), B13, B14, B25, B26, B29, B30, B66, B71

TDD: B38, B41, B42, B43, B48

##### Carrier Aggregation:

5CA DL / 2CA UL

### Network Protocols and Features

- IPv4, IPv6\*2
- Dual APN\*2
- Keep Alive
- NAT, Virtual Server, and DMZ
- Static Routing, Dynamic Routing (RIP-1/2)
- SNTP, DNS relay
- Universal Plug & Play (UPnP)
- Supports DHCP server/ client

### Firewall

- Built-in NAT firewall
- Stateful Packet Inspection (SPI)
- Prevents DoS attacks including Land Attack, Ping of Death, etc.
- Access Control
- IP Filtering, MAC Filtering
- VPN pass-through

### Wi-Fi 6

- IEEE 802.11ax/ac/n/a @5 GHz
  - IEEE 802.11ax/n/b/g @2.4 GHz
- Maximum PHY-Data Transmission Rates
- 5 GHz: 1201 Mbps (802.11ax)
  - 2.4 GHz: 574 Mbps (802.11ax)

### Management

- Password protection for system management
- Web-based GUI for remote and local management
- Firmware upgrade and configuration data backup and restore via Web-based GUI
- TR-069(CWMP)\*2, SNMP
- Syslog monitoring
- BECentral® Cloud-Based Remote Management

### Hardware Specifications

#### Physical Interface

- 2.5Gigabit Ethernet port (w/ 802.3at PoE PD) x1(One)
- Embedded eSIM x1(One, Optional)\*2
- 2FF mini-SIM slot x1(One)
- Reset Button x1(One)
- LED Indicators: Power/Boot, LAN(PoE), 5G Signal, Internet
- Wi-Fi 6 802.11ax AX1800 :
  - 5 GHz: 1201 Mbps (802.11ax)
  - 2.4 GHz: 574 Mbps (802.11ax)

#### External Connector

- One(1) Ethernet port: RJ-45
- One(1) SIM slot: 2FF mini-SIM

#### IP Rating

- IP65 grade enclosure

#### Power Requirement

- PoE 802.at(PD)

#### Physical Specifications

- Diameter: 230mm
- Height: 55mm

#### Mounting

- Pole mount, Wall mount, Windowsill, Desktop

#### Operating Requirements

- Operating: -40°C to 55°C

#### Notes:

1. The 5G NR/ 4G LTE is dependent on your local service provider.
2. Only upon request for Telco/ ISP tender projects.
3. Specifications in this datasheet are subject to change without prior notice.

