8355-JPL
Local 5G uCPE (Universal CPE)

BEC *by BILLION*

3GPP Rel-16	**5GNR** sub-6 GHz	**4G LTE Cat.19**	**SA** Mode	**Carrier Aggregation**	**MIMO** DL 4 X 4
2FF SIM Card	**eSIM** Optional	**Firewall**	**VPN**	**BECentral® CloudEdge**	**PoE(PD)** / **IP65**

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 8355-JPL 5G Universal CPE (uCPE) features an innovative design enabling indoor and outdoor installation flexibility for optimal location placement for the best signal reception. The 8355-JPL 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 8235-JPL supports 5G Sub-6 GHz standalone access (SA) fully beneting from all the 5G capabilities up to a gigabit speed to ensure a quick network connection. Flexible deployment to local 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 8355-JPL simple. Customers are guided through where to position the 8355-JPL, activation, and connect to the network.

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.

High Performance & Support for 5G NR & 4G LTE Networks
- 5G NR
  3GPP Release 16 Compliant
  Carrier Aggregation: 4CA DL / 2CA UL

- 4G/LTE
  LTE Category 19
  Carrier Aggregation: 5CA DL / 2CA UL

Patented Dual-Polarization & Dual Slant Antenna
- Embedded High-Gain 4x4 MIMO Antenna
- H-Plane & V-Plane Polarization
- Frequency Range: 3300 MHz - 4200 MHz
- Maximum Peak Gain: 3 dBi
- Ensures exceptional RF performance for maximum bandwidth and coverage
- High isolation for stable and reliable connectivity

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

Package includes
- Passive PoE Injector
- Desktop Stand
- Outdoor Mounting Kit

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Features & Specifications

Supported Frequency Band*1
- **5G NR sub-6 GHz (3GPP Rel-16)**
  SA: n41, n77,n78, n79
  Carrier Aggregation: 4CA DL / 2CA UL
  MIMO: DL 4x4, UL: 2x2

- **4G LTE (CAT 19 DL / CAT 18 UL)**
  TDD: B41, B42
  Carrier Aggregation: 5CA DL / 2CA UL
  MIMO: DL 4x4

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

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

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
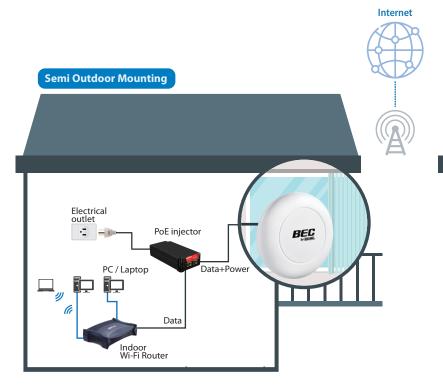- Diameter: 230mm
- Height: 55mm

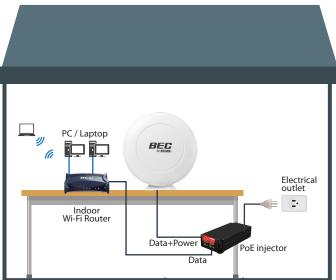#### Mounting
- Pole mount, Wall mount, Windowsill, Desktop

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.

Internet

Semi Outdoor Mounting

Electrical outlet — PoE injector — Data+Power — PC / Laptop — Data — Indoor Wi-Fi Router

Desktop Stand

PC / Laptop — Indoor Wi-Fi Router — Electrical outlet — Data+Power — PoE injector — Data