



# C120 – 5G Outdoor CPE Product Manual

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# Product Overview

The Wewins C120 is a high-performance 5G Sub-6 outdoor CPE designed to deliver stable, ultra-fast wireless broadband in scenarios where indoor signal reception is limited or unreliable.

Built on the Qualcomm Snapdragon X55 platform and compliant with 3GPP Release 15, the C120 supports both 5G Standalone (SA) and Non-Standalone (NSA) architectures, with seamless fallback to 4G LTE, ensuring continuous connectivity across diverse network environments.

Featuring an IP65-rated rugged enclosure, high-gain integrated antenna system, 4×4 DL MIMO, 2.5 Gigabit Ethernet, and PoE power supply, the C120 is ideal for home FWA, rural broadband, enterprise networking, and outdoor deployments requiring carrier-grade stability and performance.



# Key Features



## Ultra-Fast 5G Sub-6 Connectivity



Supports both 5G SA and NSA modes, delivering high throughput, low latency, and reliable broadband performance, with automatic fallback to 4G LTE for uninterrupted service.

## Powered by Qualcomm Snapdragon X55



Built on the proven Qualcomm X55 platform, enabling stable multi-band 5G/4G operation, advanced modulation, and long-term carrier-grade reliability.

## High-Gain Integrated Antenna System



Equipped with 4 omni-directional antennas for full-coverage reception and 2 directional antennas optimized for Sub-6 high-band frequencies (including N40/N78), significantly improving signal quality in weak-coverage areas.

## Outdoor-Ready Rugged Design



IP65-rated dustproof and waterproof enclosure with 6 kV lightning protection, supporting stable 24/7 operation in harsh outdoor environments.

## 2.5 Gigabit Ethernet with PoE Support



Features a 2.5GE LAN port with IEEE 802.3AT PoE, enabling power and data transmission through a single Ethernet cable for simplified installation and reduced wiring costs.

## Flexible Mounting & Easy Installation



Supports wall-mounted and pole-mounted installations with adjustable tilt angles. A mobile installation assistant helps identify optimal signal direction for best performance.

## Remote Management & OTA Updates



Supports Web UI, FOTA, TR069, and LwM2M, enabling remote monitoring, configuration, diagnostics, and firmware upgrades for carrier and enterprise deployments.

## Enterprise-Grade Security



Implements secure boot, firewall protection, SIM lock, PCI lock, and access control mechanisms to ensure secure and reliable network operation.

# Technical Specifications

## Hardware

Item	Description
Chipset	Qualcomm Snapdragon X55
Cellular Standard	3GPP Release 15
5G Mode	SA / NSA
MIMO	4x4 DL MIMO, 2x2 UL MIMO
Ethernet Port	1 x 2.5 Gigabit Ethernet (PoE IEEE 802.3AT)
SIM Slot	1 x Micro SIM
USB Port	1 x USB Type-C (service/debug)
LED Indicators	Signal strength (3 bars), Network (5G/4G), Power
Antennas	4 x omni-directional + 2 x directional high-gain antennas
Power Supply	Passive PoE DC 48V / 0.5A
Power Consumption	< 16.8 W
Dimensions	225 x 130 x 45 mm
Mounting	Wall mount / Pole mount
Operating Temperature	-20 °C to 55 °C
Protection Rating	IP65
Lightning Protection	6 kV

## Cellular Frequency Bands

Frequency bands can be customized based on customer requirements and regional carrier deployment needs.

Technology	Supported Bands
5G NR (Sub-6)	N1 / N3 / N5 / N7 / N8 / N28 / N38 / N40 / N41 / N48 / N77 / N78 / N79
4G LTE	B1 / B3 / B5 / B7 / B8 / B20 / B28 / B32 / B34 / B38 / B39 / B40 / B41 / B42 / B43 / B48

## Software & Management Features

- Auto / manual network search
- 5G / 4G mode selection
- Auto & manual APN configuration
- Traffic statistics (weekly / monthly)
- Routing modes: NAT / Bridge
- Firewall & security: IP / Port / URL filtering, DMZ, UPnP
- Device management: Web UI, FOTA, local firmware upgrade
- Remote management: TR069, LwM2M
- SIM management: PIN enable/disable, SIM lock
- Security: secure boot, PCI lock

## Application Scenarios

- 5G Home FWA (Fixed Wireless Access)
- Rural and suburban broadband coverage
- Enterprise and commercial networking
- Industrial connectivity
- Temporary or backup outdoor networking

## Installation Options

- Installation Options
- Wall-mounted installation
- Pole-mounted installation
- Balcony or rooftop deployment
- Window-adjacent outdoor placement

Designed to ensure optimal signal reception and easy deployment.

# Packing List

Item	Quantity
Outdoor CPE Device	1
PoE Adapter	1
Ethernet Cable	1
Mounting Kit	1
Quick Start Guide	1

## Certifications

- CE
- Additional local certifications available upon request

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Company Website



Product Details

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