



This certificate lists the features that have successfully completed Wi-Fi Alliance interoperability testing. Learn more: www.wi-fi.org

## **Certification ID: WFA129591**

## **Product Info**

Date of Certification January 18, 2024

**Company** Huawei Technologies Co., Ltd.

Product Name Optical Network Terminal

Product Model Variant OptiXstar HG8145X6-12

Model Number OptiXstar HG8145X6-12

**Category** Routers

**Sub-category** Access Point for Home or Small Office (Wireless Router)

## **Summary of Certifications**

CLASSIFICATION CERTIFICATION

Access Wi-Fi Protected Setup™

Alternative topologies Wi-Fi EasyMesh™

Network management WMM®

WMM®-Power Save Wi-Fi Agile Multiband™

Security Protected Management Frames

WPA2<sup>™</sup>-Enterprise 2018-04 WPA2<sup>™</sup>-Personal 2021-01 WPA3<sup>™</sup>-Enterprise 2020-02 WPA3<sup>™</sup>-Personal 2020-12

Wi-Fi (MAC/PHY) 2.4 GHz Spectrum Capabilities

5 GHz Spectrum Capabilities

Wi-Fi CERTIFIED 6®
Wi-Fi CERTIFIED™ a
Wi-Fi CERTIFIED™ b
Wi-Fi CERTIFIED™ g
Wi-Fi CERTIFIED™ n



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Role: Access Point Page 2 of 4

## **Wi-Fi Components**

Wi-Fi Component Operating System

Linux

Wi-Fi Component Firmware

V5

## **RF Architecture**

| Bands Supported | Transmit (Tx) | Receive (Rx) |
|-----------------|---------------|--------------|
| 2.4 GHz         | 2             | 2            |
| 5 GHz           | 2             | 2            |

## Certifications

## 2.4 GHz Spectrum Capabilities

20 MHz Channel Width in 2.4 GHz 40 MHz Channel Width in 2.4 GHz

## **5 GHz Spectrum Capabilities**

20 MHz Channel Width in 5 GHz 40 MHz Channel Width in 5 GHz 80 MHz Channel Width in 5 GHz

160 MHz Channel Width in 5 GHz

## WPA2™-Personal 2021-01

## WPA3™-Enterprise 2020-02

EAP methods

## WPA3™-Personal 2020-12

## Wi-Fi Agile Multiband™

Automatically populate BSS Transition candidate list

## **Protected Management Frames**

#### **WMM®**

#### WMM®-Power Save

Legacy Power Save Unschedule auto PS

## WPA2™-Enterprise 2018-04

EAP methods

## Wi-Fi CERTIFIED 6®

A-MPDU with A-MSDU

Basic Trigger frame in HE MU PPDU

BSRP Trigger frame

DL MU-MIMO

DL OFDMA

Individual Target Wake Time

LDPC Rx

LDPC Tx

MCS 8-9 Rx

MCS 8-9 Tx

MCS 10-11 Rx



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## Wi-Fi CERTIFIED 6® (continued)

MCS 10-11 Tx

MU-BAR Trigger frame

MU-RTS Trigger frame

Operating mode subfield in A-Control field

Operating mode indication

Operating mode UL MU Rx

SU beamformer

SU-MIMO

**UL OFDMA** 

## Wi-Fi CERTIFIED™ a

#### Wi-Fi CERTIFIED™ ac

RTS with BW Signaling

Extended 5 GHz Channel Support

A-MPDU with A-MSDU

DL MU-MIMO

LDPC Rx

LDPC Tx

MCS 8-9 Rx

**Short Guard Interval** 

STBC

SU beamformer

## Wi-Fi CERTIFIED™ b

#### Wi-Fi CERTIFIED™ g

#### Wi-Fi CERTIFIED™ n

A-MPDU Tx

**OBSS** on Extension Channel

**Short Guard Interval** 

## Wi-Fi CERTIFIED™ n (continued)

STBC

## Wi-Fi EasyMesh™

Backhaul Link

Backhaul in 2.4 GHz

Backhaul in 5 GHz low band

Backhaul in 5 GHz high band

Backhaul over Ethernet

Fronthaul Access Point

Fronthaul in 2.4 GHz

Fronthaul in 5 GHz low band

Fronthaul in 5 GHz high band

Client Capability Query

Unassociated STA Link Metrics Reporting

Backhaul onboarding with Wi-Fi Protected Setup pushbutton

Coordinated CAC

Traffic separation

## Wi-Fi Protected Setup™

PIN

Pushbutton



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| Role: Controller                       | Page 4 of 4 |
|--|-------------|
| Wi-Fi Components                       |             |
| Wi-Fi Component Operating System Linux |             |
| Certifications Wi-Fi EasyMesh™         |             |