Wi-Fi CERTIFIED™ Certificate

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

Certification ID: WFA130441

Product Info

Date of Certification	September 6, 2024
Company	Vodafone Group PLC
Product Name	Ultra Hub 7 Fibre
Product Model Variant	Ultra Hub 7 Fibre
Model Number	FG4278VF
Category	Routers
Sub-category	Enterprise/Service Provider Access Point, Switch/Controller or Router

Summary of Certifications

CLASSIFICATION	CERTIFICATION
Connectivity	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities Wi-Fi CERTIFIED 6® Wi-Fi CERTIFIED 7™ Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n
Optimization	WMM® Wi-Fi Agile Multiband™
Security	Protected Management Frames WPA2™-Personal 2021-01 WPA3™-Personal 2023-12
Spectrum & Regulatory Features	Spectrum & Regulatory

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Wi-Fi Components

Wi-Fi Component Operating System

Linux

Wi-Fi Component Firmware

17.10.369.1808

RF Architecture

Bands Supported	Transmit (Tx)	Receive (Rx)
2.4 GHz	4	4
5 GHz	4	4

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

Protected Management Frames

Spectrum & Regulatory

802.11d
802.11h

WMM®

WPA2™-Personal 2021-01

WPA3™-Personal 2023-12

WPA3™-Personal 2023-12 (continued)

AKM 24
Beacon Protection

Wi-Fi Agile Multiband™

Wi-Fi CERTIFIED 6®

4 antenna support
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
MCS 10-11 Tx
MU EDCA Parameter Set element
MU-BAR Trigger frame
MU-RTS Trigger frame
Operating mode indication

Wi-Fi CERTIFIED 6® (continued)

- SU beamformer
- SU-MIMO
- TXOP RTS Threshold
- UL OFDMA

Wi-Fi CERTIFIED 7™

- Advertised TID-to-link mapping
- A-MPDU with A-MSDU
- BSRP Trigger frame
- BSS critical update
- DL MU-MIMO
- DL OFDMA
- Dynamic MU SMPS
- EMLSR (Enhanced Multilink Single-Radio)
- LDPC Rx
- LDPC Tx
- MCS 8-9 Rx
- MCS 8-9 Tx
- MCS 10-11 Rx
- MCS 10-11 Tx
- MCS 12-13 Rx
- MCS 12-13 Tx
- Multi-link reconfiguration – AP removal
- Multi-link reconfiguration – AP restart
- Multi-RU
- MU-RTS Trigger frame
- Operating mode indication
- STR (Simultaneous Transmit and Receive)
- SU-MIMO
- Triggered uplink access optimization
- UL MU-MIMO
- UL OFDMA

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ ac

- A-MPDU with A-MSDU
- DL MU-MIMO
- Extended 5 GHz Channel Support
- 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
- HT Duplicate Mode
- OBSS on Extension Channel
- Short Guard Interval
- STBC