

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 ID: WFA133154

Product Info

Date of Certification December 24, 2024

Company Morse Micro

Product Name HaLowLink 1

Product Model Variant MM-HL1-EXT

Model Number MM-HL1

Category Routers

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

Summary of Certifications

CLASSIFICATION CERTIFICATION

Network management WMM®

Security Protected Management Frames

WPA2[™]-Personal 2021-01 WPA3[™]-Personal 2024-10 Wi-Fi Enhanced Open[™] 2021-01

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

Sub-1 GHz Spectrum Capabilities

Wi-Fi CERTIFIED HaLow™

Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n



Wi-Fi CERTIFIED® Certificate

Certification ID: WFA133154



Role: Access Point	Page 2	of 3	
Wi-Fi Components			
Wi-Fi Component Operating System	RF Architecture		
OpenWrt Linux	Bands Supported Transmit (Tx) Recei	ive (Rx)	
Wi-Fi Component Firmware	2.4 GHz 2 2		
2.6.13			
Wi-Fi Component Operating System	RF Architecture		
OpenWrt Linux	Bands Supported Transmit (Tx) Recei	ive (Rx)	
Wi-Fi Component Firmware	Sub-1 GHz 1 1		
2.6.13			
Certifications			
2.4 GHz Spectrum Capabilities	Wi-Fi CERTIFIED HaLow™ (continued)		
20 MHz Channel Width in 2.4 GHz	A-MPDU Rx		
40 MHz Channel Width in 2.4 GHz	A-MPDU Tx Fragmentation Tx		
Protected Management Frames	Target Wake Time		
Frotected Management Frames	Unified Scaling Factor		
Sub-1 GHz Spectrum Capabilities	Wi-Fi CERTIFIED™ b		
1 MHz Channel Width in sub-1 GHz	WHITCERTIFIED		
MHz Channel Width in sub-1 GHz MHz Channel Width in sub-1 GHz	Wi-Fi CERTIFIED™ g		
8 MHz Channel Width in sub-1 GHz	Wi-Fi CERTIFIED™ n		
WILLIA	A-MPDU Tx		
WMM®			
WPA2™-Personal 2021-01	Wi-Fi Enhanced Open™ 2021-01		
WPA3™-Personal 2024-10			
Wi-Fi CERTIFIED HaLow™			



Wi-Fi CERTIFIED® Certificate

Certification ID: WFA133154



Role: Station Page 3 of 3

Wi-Fi Components

Wi-Fi Component Operating System

OpenWrt Linux

Wi-Fi Component Firmware

2.6.13

RF Architecture

Bands Supported Transmit (Tx) Receive (Rx)

2.4 GHz 2 2

Wi-Fi Component Operating System

OpenWrt Linux

Wi-Fi Component Firmware

2.6.13

RF Architecture

Bands Supported Transmit (Tx) Receive (Rx)

Sub-1 GHz 1

Certifications

2.4 GHz Spectrum Capabilities

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

Protected Management Frames

Sub-1 GHz Spectrum Capabilities

1 MHz Channel Width in sub-1 GHz

2 MHz Channel Width in sub-1 GHz

4 MHz Channel Width in sub-1 GHz

8 MHz Channel Width in sub-1 GHz

Wi-Fi CERTIFIED HaLow™ (continued)

A-MPDU Tx

A-MPDU Rx

Fragmentation Tx

MCS 3-7 Rx

NDP Probe Request Tx

Target Wake Time

Unified Scaling Factor

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

WMM®

WPA2™-Personal 2021-01

WPA3™-Personal 2024-10

Wi-Fi CERTIFIED HaLow™

Wi-Fi CERTIFIED™ n

A-MPDU Tx

Short Guard Interval

STBC

Wi-Fi Enhanced Open™ 2021-01