



Wi-Fi CERTIFIED™ Interoperability 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: WFA101661

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Date of Last Certification	September 28, 2020
Company	Comtrend Corporation
Product	Home Gateway
Model Number	GRG-4280us
Product Identifier(s)	
Category	Other
Subcategory	Reference Design
Hardware Version	Product: GRG-4281us_M, Wi-Fi Component: GRG-4281us_D
Firmware Version	Product: QR51S404, Wi-Fi Component: v.50.0.56.23
Operating System	Linux, version: 4.4.140
Frequency Band(s)	2.4 GHz, 5 GHz - Concurrent

Summary of Certifications

CLASSIFICATION	PROGRAM
Connectivity	Wi-Fi CERTIFIED 6™
	Wi-Fi CERTIFIED™ a, b, g, n, ac
	WPA™ - Personal
	WPA2™ - Personal
	WPA3™ - Personal
Optimization	WMM®



Security

WPA™ - Personal
WPA2™ - Personal
WPA3™ - Personal (Aug 2019)
Protected Management Frames

Wi-Fi CERTIFIED™ a

Wi-Fi CERTIFIED™ b

Wi-Fi CERTIFIED™ g

Wi-Fi CERTIFIED™ n

2.4 GHz, 5 GHz - Concurrent
3 Spatial Streams 2.4 GHz
3 Spatial Streams 5 GHz
Short Guard Interval
TX A-MPDU
STBC Transmit
40 MHz operation in 2.4 GHz, with coexistence mechanisms
40 MHz operation in 5 GHz

Wi-Fi CERTIFIED™ ac

4 Spatial Streams 5 GHz
Rx MCS 8-9 (256-QAM)
Tx STBC 2x1
Rx A-MPDU of A-MSDU
Tx SU beamformer
Low Density Parity Check coding

Wi-Fi CERTIFIED 6™

4 Spatial Streams 2.4 GHz Rx
5 Spatial Streams 5 GHz Rx
Maximum Supported Channel Width (20, 40, 80 MHz)
DL MU-MIMO
DL SU Beamforming
MCS 8-9 Rx
MCS 10-11 Rx
MU-RTS /CTS trigger frame
MU EDCA Parameter set
Multiple-BSSID Set
Low Density Parity Check (LDPC) coding
Operating Mode Rx

WMM®

Spectrum and Regulatory Features

802.11d
802.11h