

# 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: WFA91325**

### **Product Info**

Date of Certification	May 29, 2020
Company	Vantiva
Product Name	FGA5330
Product Model Variant	2020-05-29 (WFA91325 - 9724924)
Model Number	FGA5330TCH
Category	Routers
Sub-category	Access Point for Home or Small Office (Wireless Router)

#### **Summary of Certifications**

CLASSIFICATION	CERTIFICATION
Network management	WMM® Wi-Fi Agile Multiband™
Security	Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2018-04 WPA3™-Enterprise 2018-04 WPA3™-Personal 2019-08
Wi-Fi (MAC/PHY)	2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities Spectrum & Regulatory Wi-Fi CERTIFIED 6® Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n



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Wi-Fi Components     RF Architecture       Linux, version:4.1.52     Bands Supported     Transmit (Tx)     Receive (Rx)       Wi-Fi Component Firmware     2.4 GHz     4     4       19.4.0279     2.4 GHz     4     4       5 GHz     4     4     4       20 MHz Channel Width in 2.4 GHz     WPA3 <sup>TM</sup> -Personal 2018-04     WPA3 <sup>TM</sup> -Enterprise 2018-04     4       20 MHz Channel Width in 2.4 GHz     WPA3 <sup>TM</sup> -Enterprise 2018-04     EAP     4       20 MHz Channel Width in 2.4 GHz     WPA3 <sup>TM</sup> -Personal 2019-08     WI-Fi Agile Multibard TM     5       20 MHz Channel Width in 5 GHz     WPA3 <sup>TM</sup> -Personal 2019-08     WI-Fi Agile Multibard TM     5       20 MHz Channel Width in 5 GHz     WI-Fi Agile Multibard TM     WI-Fi Agile Multibard TM     5       20 MHz Channel Width in 5 GHz     Wi-Fi CERTIFIED 60     WI-Fi Agile Multibard TM     5       20 MHz Channel Width in 5 GHz     Basic Trigger frame in HE MU PPDU     Basic Trigger frame in HE MU PPDU     5       802 114     Compressed Block Ack Rx (buffer size 256)     Compressed Block Ack Rx (buffer size 256)     Compressed Block Ack Rx (buffer size 256)       802 114     D. OFDMA	Role: Access Point		P	age 2 of 3
Linux, version: 4.1.52 Wi-Fi Component Firmware 19.4.0279 Bands Supported Transmit (Tx) Receive (Rx) 2.4 GHz 4 4 5 GHz 4 4 5 GHz 4 4 Certifications 2.4 GHz 6Hz 4 4 5 GHz 92018-04 20 MHz Channel Width in 2.4 GHz 40 MHz Channel Width in 2.4 GHz 20 MHz Channel Width in 5 GHz 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 80 MHz Channel Width in 5 GHz 160 MHz Channel Width in 5 GHz 80 MHz Channel Width in 5 GHz 160 MHz Cha	Wi-Fi Components			
WI-Fi Component Firmware 19.4.0279   2.4 GHz   4   4     S GHz   4   4     S GHz   4   4     Certifications   WPA2 <sup>TM</sup> -Personal 2018-04   4     20 MHz Channel Width in 2.4 GHz   WPA3 <sup>TM</sup> -Enterprise 2018-04   4     20 MHz Channel Width in 2.4 GHz   WPA3 <sup>TM</sup> -Personal 2019-04   4     20 MHz Channel Width in 5 GHz   WPA3 <sup>TM</sup> -Personal 2019-08   4     20 MHz Channel Width in 5 GHz   WI-Fi Agile Multiband <sup>TM</sup> 5     20 MHz Channel Width in 5 GHz   WI-Fi CERTIFIED 6®   1     20 MHz Channel Width in 5 GHz   WI-Fi CERTIFIED 6®   1     80 MHz Channel Width in 5 GHz   WI-Fi CERTIFIED 6®   1     90 MHz Channel Width in 5 GHz   4 anterna support   1     100 MHz Channel Width in 5 GHz   0   1   1     90 MHz Channel Width in 5 GHz   0   1   1   1     90 MHz Channel Width in 5 GHz   0   1   <	Wi-Fi Component Operating System	<b>RF Architecture</b>		
19.4.0279   2.4 GHz   4   4     5 GHz   4   4     Certifications     2.4 GHz Spectrum Capabilities   WPA2 <sup>™</sup> -Personal 2018-04     20 MHz Channel Width in 2.4 GHz     40 MHz Channel Width in 2.4 GHz   WPA3 <sup>™</sup> -Enterprise 2018-04     20 MHz Channel Width in 5.4 GHz   WPA3 <sup>™</sup> -Personal 2019-08     20 MHz Channel Width in 5 GHz   WPA3 <sup>™</sup> -Personal 2019-08     20 MHz Channel Width in 5 GHz   WI-Fi Agile Multiband <sup>™</sup> 40 MHz Channel Width in 5 GHz   Wi-Fi CERTIFIED 6®     20 MHz Channel Width in 5 GHz   Wi-Fi CERTIFIED 6®     80 MHz Channel Width in 5 GHz   Wi-Fi CERTIFIED 6®     80 MHz Channel Width in 5 GHz   4 antenna support     40 MHz Channel Width in 5 GHz   Spectrum & Regulatory     80 SP Trigger frame   Compressed Block Ack Rx (buffer size 256)     802.11d   Compressed Block Ack Tx (buffer size 256)     90 MM®   Individual Target Wake Time     90 JOFDMA   Individual Target Wake Time     90 MHz Channel Width in 5 GHz   Dof CMA     90 MHz Channel Width in 5 GHz   Compressed Block Ack Tx (buffer size 256)     90 MHz Channel Width in 5 GHz   Dof DMA	Linux, version:4.1.52	Bands Supported	Transmit (Tx)	Receive (Rx)
5 GHz 4 4   Certifications   Certifications   2.4 GHz Spectrum Capabilities WPA2™-Personal 2018-04   20 MHz Channel Width in 2.4 GHz WPA3 ™-Enterprise 2018-04   40 MHz Channel Width in 2.4 GHz WPA3 ™-Enterprise 2018-04   20 MHz Channel Width in 5 GHz WPA3 ™-Personal 2019-08   20 MHz Channel Width in 5 GHz WI-Fi Agile Multiband ™   40 MHz Channel Width in 5 GHz Wi-Fi Agile Multiband ™   80 MHz Channel Width in 5 GHz Wi-Fi CERTIFIED 6®   Protected Management Frames A antenna support AMPDU with AMSDU Basic Trigger frame in HE MU PPDU BSRP Trigger frame   802.11d Compressed Block Ack Rx (buffer size 256) Compressed Block Ack Rx (buffer size 256)   WMM® Individual Target Wake Time LDPC Rx   WPA2 ™-Enterprise 2018-04 LDPC Rx		2.4 GHz	4	4
2.4 GHz Spectrum Capabilities   WPA2™-Personal 2018-04     20 MHz Channel Width in 2.4 GHz   WPA3™-Enterprise 2018-04     40 MHz Channel Width in 2.4 GHz   EAP methods     5 GHz Spectrum Capabilities   WPA3™-Personal 2019-08     20 MHz Channel Width in 5 GHz   WI-Fi Agile Multiband™     40 MHz Channel Width in 5 GHz   Wi-Fi Agile Multiband™     80 MHz Channel Width in 5 GHz   Wi-Fi CERTIFIED 6®     Protected Management Frames   4 antenna support     A-MPDU with A-MSDU   Basic Trigger frame in HE MU PPDU     BSRP Trigger frame   Compressed Block Ack Rx (buffer size 256)     802.11d   Compressed Block Ack Tx (buffer size 256)     WIMM®   Individual Target Wake Time     WPA2™-Enterprise 2018-04   LDPC Tx	19.4.0279	5 GHz	4	4
20 MHz Channel Width in 2.4 GHz   WPA3™-Enterprise 2018-04     40 MHz Channel Width in 2.4 GHz   EAP methods     5 GHz Spectrum Capabilities   WPA3™-Personal 2019-08     20 MHz Channel Width in 5 GHz   WI-Fi Agile Multiband™     40 MHz Channel Width in 5 GHz   Wi-Fi Agile Multiband™     80 MHz Channel Width in 5 GHz   Wi-Fi CERTIFIED 6®     160 MHz Channel Width in 5 GHz   4 antenna support     90 MHz Channel Width in 5 GHz   Wi-Fi CERTIFIED 6®     160 MHz Channel Width in 5 GHz   Sectrum 8 Regulatory     802.11d   Basic Trigger frame     802.11d   Compressed Block Ack Rx (buffer size 256)     WIMM®   DL OFDMA     Individual Target Wake Time   LDPC Rx     LDPC Rx   LDPC Rx	Certifications			
40 MHz Channel Width in 2.4 GHz   EAP methods     5 GHz Spectrum Capabilities   WPA3™-Personal 2019-08     20 MHz Channel Width in 5 GHz   Wi-Fi Agile Multiband™     40 MHz Channel Width in 5 GHz   Wi-Fi Agile Multiband™     80 MHz Channel Width in 5 GHz   Wi-Fi CERTIFIED 6®     Protected Management Frames   4 antenna support     A-MPDU with A-MSDU   Basic Trigger frame in HE MU PPDU     Spectrum & Regulatory   BSRP Trigger frame     802.11d   Compressed Block Ack Tx (buffer size 256)     WMM®   DL OFDMA     Individual Target Wake Time   LDPC Tx	2.4 GHz Spectrum Capabilities	WPA2™-Personal	2018-04	
Image: Constant of Con		WPA3™-Enterpris	e 2018-04	
20 MHz Channel Width in 5 GHz   WPA3™-Personal 2019-08     40 MHz Channel Width in 5 GHz   Wi-Fi Agile Multiband™     80 MHz Channel Width in 5 GHz   Wi-Fi CERTIFIED 6®     160 MHz Channel Width in 5 GHz   4 antenna support     Protected Management Frames   4 antenna support     Spectrum & Regulatory   Basic Trigger frame in HE MU PPDU     802.11d   Compressed Block Ack Tx (buffer size 256)     WMM®   DL OFDMA     Individual Target Wake Time   LDPC Tx     LDPC Tx   LDPC Tx		EAP methods		
20 MHz Channel Width in 5 GHz   Wi-Fi Agile Multiband™     80 MHz Channel Width in 5 GHz   Wi-Fi CERTIFIED 6®     160 MHz Channel Width in 5 GHz   4 antenna support     Protected Management Frames   4 antenna support     Spectrum & Regulatory   Basic Trigger frame     802.11d   Compressed Block Ack Rx (buffer size 256)     WMM®   DL OFDMA     Individual Target Wake Time   LDPC Rx     LDPC Tx   LDPC Tx	5 GHz Spectrum Capabilities		0040.00	_
80 MHz Channel Width in 5 GHz   Wi-Fi CERTIFIED 6®     Protected Management Frames   4 antenna support     Spectrum & Regulatory   Basic Trigger frame in HE MU PPDU     802.11d   Compressed Block Ack Rx (buffer size 256)     Compressed Block Ack Tx (buffer size 256)   Compressed Block Ack Tx (buffer size 256)     WMM®   DL OFDMA     Individual Target Wake Time   LDPC Rx     LDPC Tx   LDPC Tx	20 MHz Channel Width in 5 GHz	wPA3 ···· - Personal	2019-08	
160 MHz Channel Width in 5 GHz   Wi-Fi CERTIFIED 6®     Protected Management Frames   4 antenna support     Spectrum & Regulatory   Basic Trigger frame in HE MU PPDU     802.11d   BSRP Trigger frame     WMM®   Compressed Block Ack Tx (buffer size 256)     WMM®   DL OFDMA     Individual Target Wake Time     LDPC Tx		Wi-Fi Agile Multib	and™	
Protected Management FramesA-MPDU with A-MSDUSpectrum & RegulatoryBasic Trigger frame in HE MU PPDU802.11dBSRP Trigger frameWMM®Compressed Block Ack Tx (buffer size 256)WMM®DL OFDMAIndividual Target Wake TimeLDPC TxLDPC Tx		Wi-Fi CERTIFIED	6®	
Spectrum & RegulatoryBasic Trigger frame in HE MU PPDU802.11dBSRP Trigger frame802.11dCompressed Block Ack Rx (buffer size 256)WMM®DL MU-MIMOWPA2™-Enterprise 2018-04LDPC RxLDPC TxLDPC Tx	Protected Management Frames			
802.11d   Compressed Block Ack Rx (buffer size 256)     WMM®   DL OFDMA     Individual Target Wake Time     LDPC Rx     LDPC Tx			IE MU PPDU	
802.11d   Compressed Block Ack Tx (buffer size 256)     DL MU-MIMO     WMM®   DL OFDMA     Individual Target Wake Time     LDPC Rx     LDPC Tx	Spectrum & Regulatory			
WMM®   DL OFDMA     Individual Target Wake Time     WPA2™-Enterprise 2018-04     LDPC Rx     LDPC Tx	802.11d			
WINN®   Individual Target Wake Time     WPA2™-Enterprise 2018-04   LDPC Rx     LDPC Tx   LDPC Tx				
LDPC Tx	WMM®		Time	
	WPA2™-Enterprise 2018-04			
	EAP methods			
MCS 8-9 Tx MCS 10-11 Rx				

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Role: Access Point	Page 3 of 3
Wi-Fi CERTIFIED 6® (continued)	
MCS 10-11 Tx	
MU EDCA Parameter Set element	
MU-BAR 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	
A-MPDU with A-MSDU	
DL MU-MIMO	
LDPC Rx	
MCS 8-9 Rx Short Guard Interval	
STBC	
SU beamformer	
Wi-Fi CERTIFIED™ b	
Wi-Fi CERTIFIED™ g	
Wi-Fi CERTIFIED™ n	
OBSS on Extension Channel	
Short Guard Interval	
STBC	
A-MPDU Tx	

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