

5G Indoor Router

F-NR300 Series



Introduction

F-NR300 series is a 5G Indoor Router, supports NR (SA&NSA), TDD-LTE, FDD-LTE, converts cellular network data into WIFI and wired network port data, supports up to 1x2.5G LAN port, 1x2.5G LAN/ WAN port, 2.4G+5G dual-band WIFI-AP. It is suitable for home or commercial scenarios that require rapid deployment of wired broadband networks and WIFI hotspots.

Product Specification

Cellular Specification

Model	F-NR300	FNR300-02	F-NR300 V2
Items	Contents		
Frequency Band	<p>5G NR NSA & SA: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48*/n66/n71/n77/n78/n79</p> <p>LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71</p> <p>LTE-TDD: B34/B38/39/B40/B41/B42/B43/B48</p> <p>WCDMA: B1/B2/B3/B4/B5/B6/B8/B19</p>	<p>5G NR NSA: n1/3/5/7/8/20/28/38/40/41/71/75/76/77/78</p> <p>5G NR SA: n1/3/5/7/8/20/28/38/40/41/71/75/76/77/78</p> <p>LTE-FDD: B1/3/5/7/8/20/28/32/71</p> <p>LTE-TDD: B38/40/41/42/43</p> <p>WCDMA: B1/5/8</p>	<p>5G NR NSA: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48*/n66/n71/n77/n78/n79</p> <p>5G NR SA: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48*/n66/n71/n77/n78/n79</p> <p>LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B66/B71</p> <p>LTE-TDD: B34/B38/39/B40/B41/B42/B43/B48</p> <p>WCDMA: B1/B2/B3/B4/B5/B6/B8/B19</p>
Remarks: Different modules support different network standards			

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Cellular Specification

Model	F-NR300	FNR300-02	F-NR300 V2
Items	Contents		
Theoretical Maximum Bandwidth	5G Sub-6: DL: 4.67 Gbps, UL: 1.25 Gbps	5G SA Sub-6 GHz: DL: 4.67 Gbps, UL: 1.25 Gbps	5G Sub-6: DL: 2.5 Gbps, UL: 600 Mbps
	LTE: DL: 1.6 Gbps, UL: 211 Mbps	5G NSA Sub-6 GHz: DL: 4.67 Gbps, UL: 836 Mbps LTE: DL: 1.6 Gbps, UL: 200Mbps HSPA+: DL: 42Mbps, UL: 5.76Mbps UMTS: DL: 384Kbps, UL: 384Kbps	LTE: DL: 1 Gbps, UL: 200 Mbps

Hardware

Items	Contents		
CPU	MTK T750 CPU@2.0GHz, Quad-core		MTK7621 CPU@880MHz, Dual-core
FLASH	32GB (NA Version) 1GB (EAU Version)	1GB	128 MB
DDR	2GB (NA Version) 1GB (EAU Version)	1GB	512MB

WIFI Specification

Items	Contents		
WIFI Protocol	IEEE802.11 a/b/g/n/ac/ax		
Frequency	2.4GHz+5GHz		
Theoretical Maximum Bandwidth	2.4GHz 4x4MIMO 11ax: DL 1.146 Gbps		2.4GHz 2x2MIMO 11ax: DL 0.573 Gbps
	5GHz 4x4MIMO 11ax: DL 2.4 Gbps		5GHz 2x2MIMO 11ax: DL 1.2 Gbps
Channel Bandwidth	20MHz, 40MHz, 80MHz		
MESH Network	Support FFAIoT router and CPE to build the MESH network		

Power Supply

Items	Contents
Standard Power Supply	DC 12V/3A
Power Supply Range	DC 9~24V
Working Current	< 1.1A (12V)

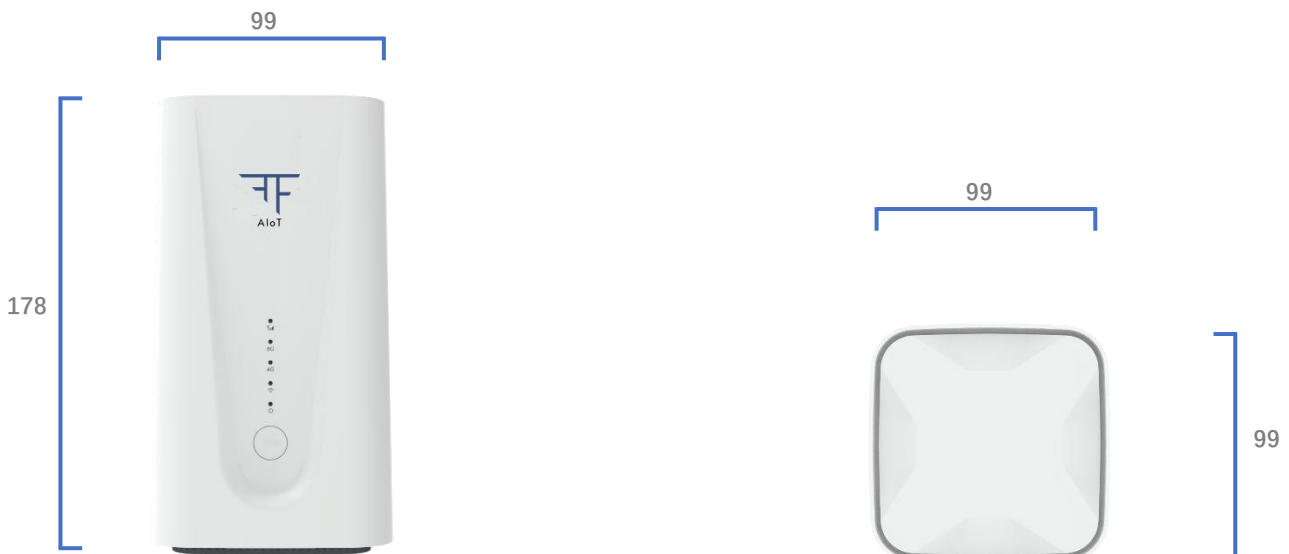
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Interfaces			
Model	F-NR300	FNR300-02	F-NR300 V2
Items	Contents		
LAN 2 / WAN	1 x 2.5G Ethernet (RJ45), auto MDI/MDIX		1 x 1G Ethernet (RJ45), auto MDI/MDIX
LAN 1	1 x 1G Ethernet (RJ45), auto MDI/MDIX	1 x 2.5G Ethernet (RJ45), auto MDI/MDIX	1 x 1G Ethernet (RJ45), auto MDI/MDIX
Indicator	Signal, 5G, 4G, WIFI, Power		
SIM Card	1 x Nano-SIM interface (Compatible with eSIM)		
Power	Three-core DC locomotive power socket, built-in power reverse protection		
USB	1 x Type C		
Reset Button	Through this button, the parameter configuration can be restored to the factory value		

Physical Properties			
Items	Contents		
Shell	ABS Material		
Dimensions	178x99x99mm		
Weight	650g		635g
Operating Temperature	-20~+60°C		
Storage Temperature	-40~+85°C		
Humidity	95% (No-condensing)		

Dimension (mm)



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Order Information

Models	Description
F-NR300-NA	North America Version, MTK T750 CPU, FLASH: 32GB, DDR: 2GB, Cellular (5G NR), 2.4G/5G WIFI, SIM*1, 1x2.5G WAN/LAN, 1x1G LAN
F-NR300-EAU	Europe Version, MTK T750 CPU, FLASH: 1GB, DDR: 1GB, Cellular (5G NR), 2.4G/5G WIFI, SIM*1, 1x2.5G WAN/LAN, 1x1G LAN
F-NR300 V2	MTK 7621 CPU, FLASH: 128MB, DDR: 512MB, Cellular (5G NR), 2.4G/5G WIFI, SIM*1, 1x1G WAN/LAN, 1x1G LAN
F-NR300 V2-5R	MTK 7621 CPU, FLASH: 128MB, DDR: 512MB, Cellular (5G Redcap), 2.4G/5G WIFI, SIM*1, 1x1G WAN/LAN, 1x1G LAN
FNR300-02-AA	EMEA Version, MTK T750 CPU, FLASH: 1GB, DDR: 1GB, Cellular (5G NR), 2.4G/5G WIFI, SIM*1, 1x2.5G WAN/LAN, 1x2.5G LAN
FNR300-02-AB	Middle East Version, MTK T750 CPU, FLASH: 1GB, DDR: 1GB, Cellular (5G NR), 2.4G/5G WIFI, SIM*1, 1x2.5G WAN/LAN, 1x2.5G LAN