



Magnotek

5G CPE

F-NR300



5G



Introduction

F-NR300 is a high-performance 5G indoor CPE, supports NR (SA&NSA), TDD-LTE, FDD-LTE, converts cellular network data into WIFI and wired network port data, supports 1x1G 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

Model	North American Version	European Version
Cellular Specification		
Items	Contents	
Frequency Band	5G Sub-6: n2/5/7/12/14/25/30/41/48/66/71/77/78 LTE FDD: B2/4/5/7/12/13/14/17/25/26/29/30/66/71 LTE TDD: B41/46/48 WCDMA: B2/4/5	5G Sub-6: n1/3/5/7/8/20/28(a&b)/38/40/41/77/78/79 LTE FDD: B1/3/5/7/8/18/19/20/26/28(a&b)/32 LTE TDD: B38/40/41/42/43/46 WCDMA: B1/5/8
MIMO	5G NR: DL 4x4 MIMO: n2/7/25/30/41/48/66/77/78 MIMO: n2/7/25/30/41/66/77/78 LTE: DL 4x4 MIMO: B2/4/7/25/30/41/66 Remark: B29 Receive Only	5G NR: DL 4x4 MIMO: n1/3/7/38/40/41/77/78/79 UL 2x2 MIMO: n41/77/78/79 LTE: DL 4x4 MIMO: B1/3/7/32/38/40/41 Remark: B32/B46 Receive Only
Theoretical Maximum Bandwidth	5G Sub-6 : DL: 4.67 Gbps, UL: 1.25 Gbps LTE : DL: 1.6 Gbps, UL: 211 Mbps	

Model	North American Version	European Version
Hardware		
Items	Contents	
CPU	Cortex-A55@2.0GHz, Quad-core	
FLASH	32GB	1GB

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LPDDR4	2GB	1GB
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, 1.146 Gbps	
Bandwidth	5GHz 4x4MIMO 11ax, 2.4 Gbps	
Channel Bandwidth	20MHz, 40MHz, 80MHz	
Power Supply		
Items	Contents	
Standard Power Supply	DC 12V/3A	
Power Supply Range	DC 9~24V	
Working Current	< 1.1A (12V)	
Interfaces		
Items	Contents	
LAN 2 / WAN	1 x 2.5G Ethernet (RJ45), auto MDI/MDIX	
LAN 1	1 x 1G Ethernet (RJ45), auto MDI/MDIX	
Telephone	1 x RJ11 (Optional)	
Indicator	Signal, 5G, 4G, WIFI, Power	
SIM Card	Nano-SIM interface	
Power	Three-core DC locomotive power socket, built-in power reverse protection	

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Dimension (mm)

USB

Type C 2.0

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
Operating Temperature	0~+40°C
Storage Temperature	-40~+85°C
Humidity	95% (No-condensing)

Models	Description
F-NR300 (EU Version)	Cellular (5G NR), 2.4G/5G WIFI, SIM*1
F-NR300 (NA Version)	Cellular (5G NR), 2.4G/5G WIFI, SIM*1

