

infrastructure, energy grid monitoring, water management and more.



NetScan

The NetLink Fortress® Router provides a revolutionary dynamic allocation of connectivity. At power-on, the router will automatically detect the carrier with the strongest available cellular network and seamlessly connect.



Industrial Strength

NetLink Fortress® is engineered for the toughest environments, ensuring reliable connectivity even challenging conditions.



Weatherproof Enclosure Box

Crafted from lightweight anti-corrosion aluminum, our outdoor enclosure is diecast by a 100-ton pressure, providing robust protection. Rubber gaskets and seals create a fortress against water intrusion at every juncture. The resilient white coating defends against extreme conditions.



Tested for Endurance

Our router's housing has passed rigorous percolation and salt spray tests, ensuring longevity and reliability. Crafted from lightweight anti-corrosion aluminum, our outdoor enclosure is diecast by a 100-ton pressure, providing robust protection. NetLink Fortress® is engineered for the toughest environments, ensuring reliable connectivity even in challenging conditions.



Remote Management Platform

Enjoy total device management from our NetLink Command cloud platform. Easily activate, suspend, manage data plans, location, and remote support as if you're locally connected to the device, without having to be onsite. Manage diagnostics, data filtering, VPN and more.

Stay Connected, Rain or Shine: Elevate Your Connectivity with the NetLink Fortress® - Where Innovation Meets Endurance.





Shell characteristics

All-metal aluminum alloy is integrally formed, explosion-proof, waterproof, and corrosion-proof. The waterproof level supports IP66 waterproof level

5 external N-type industrial-grade WiFi antenna interfaces, adapt to different antenna types according to the needs of the scene, 8DBi high gain fiberglass antenna

The power, internet, 4G/5G instructions are clear at a glance.

External waterproof grade Gigabit Ethernet LAN port.

5G Cellular

5G Baseband: Qualcomm® SnapdragonTM X55 Modem-RF System

5G Network Modes: SA (standalone), NSA (non-standalone)

5G NSA Bands: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/ n40/n41/n48*/n66/n71/n77/n78/n79

5G SA Bands: n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40

n41/n48*/n66/n71/n77/n78/n79

5G Standards:3GPP Release 15

5G SA Transmission Speed:2.1Gbps/900Mbps (up to ISPs)

5G NSA Transmission Speed:2.5Gbps/650Mbps (up to ISPs) * under development / in progress.

4G Cellular

LTE Category: Down Cat 16/ UP Cat 18 LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/ B20/B25/B26/B28/B29/B30/B32/B66/B71

LTE-TDD: B34/B38/B39/B40/B41/B42/B43/B48 LTE Down 4 × 4 MIMO:B1/B2/B3/B4/B7/B25/B30/B32/B34/B38 /B39/B40/B41/B42/B43/B48/B66

WCDMA:B1/B2/B3/B4/B5/B8/B19

LTE: Down 1.0 Gbps;UP 200 Mbps

Antenna type: external 5G/4G main set, diversity omnidirectional

WiFi 1200Mbps(802.11AC)

Working Radio: #1: 300Mbps @ 2.4GHz; #2: 900Mbps @5.1-5.8GHz

Coding Technology: 1024-QAM / OFDMA

Peak Connections:>500+ Clients

Wi-Fi Standard Conformance:WiFi 802.11ac/802.11n backward

Hardware Specification

CPU:MT7621+ MT7612+MT7603 Memory:16MB + 256MB DDR3

Ethernet:1x1Gbps WAN,2xLAN 1Gbps

1xSIM Slot 1xMINIPCIE

1xM2

1xSD card slot

Reset button

LED Indicator

4G5G Status

Power Status

2.4G LED

5.8G LED

General

Power Consumption: <24W

DC Power Supply: 15V POE or 48V POE

Working temperature:0°C~40°C, Storage temperature:

20°C~+70°C

Humidity:5%~95%

Dimensions:

Weight: TBD











Data Switching

Mobile 4G/5G Connection (Support APN)

Giga Ethernet Connection

2.4G/5Ghz WiFi

Advanced Firewall

MAC Filter

WiFi Sercurity

VPN Passthrough and VPN Client (L2TP PPTP)

IPV4/IPV6

WEB / APP Mangement

Firmware upgrade

Technical Specifications

Model WS1209-H

CPU MT7621

Flash 16MB + 256MB Fl

WiFi Frequency band 2.4G&5G

WiFi 2.4G: 802.11b/g/n 5.8GHz:802.11a/n/ac MIMO

WiFi rate 2.4GHz :300Mbps ,5GHz :900Mbps

5G Standard 3GPP Release 15 NSA/SA operation, Sub-6 GHz

5G Networking method NSA/SA

5G SA Transmission Speed:2.1Gbps/900Mbps (up to ISPs)

5G/4G rate 5G NSA Transmission Speed:2.5Gbps/650Mbps (up to ISPs)

LTE: Down 1.0 Gbps;UP 200 Mbps

5G NR NSA n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/

n41/n48*/n66/n71/n77/n78/n79

5G NR SA

5GFrequency band

n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48*/n66/n

71/n77/n78/n79

MIMO

Down:4 × 4 MIMO on

n1/n2/n3/n7/n25/n38/n40/n41/n48/n66/n77/n78/n79

UP:2 × 2 MIMO on n41

WIFI EVM

802 . 11g @5 4M: ≤ -3 0 dB

802 . 11b @1 1M: ≤ -1 5 dB

802 . 11a@54 M: ≤ -28 dB

802 . 11ac @MCS9: ≤ -3 3 dB

Size 1x10/100M/1000 LAN mouth

LTE Category

Down Cat 16/ UP Cat 18

LTE-FDD

B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/

B26/B28/B29/B30/B32/B66/B71

LTE-TDD

B34/B38/B39/B40/B41/B42/B43/B48

4GFrequency band LAA

B46(Only supports 2 × 2 MIMO)

Down 4 ×4 MIMO

B1/B2/B3/B4/B7/B25/B30/B32/B34/B38/39/B40/B41/B42/B43/

B48/B66

WCDMA

B1/B2/B3/B4/B5/B6/B8/B19

5G:Modulation mode GMSK/8PSK/BPSK/QPSK/16QAM/

64QAM/256QAM

Interface

1x48V POE interface

Reset button Reset button (long press for 10 seconds to restore the default factory configuration)

Status Indicator Power light, breathing indicator, WiFi indicator

Working power <24W

Working temperature: -20°C~+50°C

Working environment Storage temperature: -40°C~+70°C

Humidity: 5%~95% (non-condensing)

Weight TBD

Software function

IPV4 support

IPV6 support

Smart QOS support

Parental Controls support

UPNP support

Supports L2TP VPN client

VPN Supports PPTP VPN client

APN support

DDNS support

DMZ support

Port Mapping support



WIFI

1024-QAM / OFDMA

Formats and

Ant0 (DB) Ant1 (DB)

Channels

80.211B 25 25

80.211G 23.9 23.8

2.4G

80.211N20 23 23

80.211N40 23 23

80.211AC20 22 22

80.211AC40 21 21

Formats

Ant0(DB)Ant1(DB)Ant2(DB)Ant3(DB)

11 a54M 24 24 24 24

11 n2 0MCS0 23 23 23 23

WIFI Power 11 n2 0MCS7 23 23 23 23

11 n4 0MCS0 23 23 23 23

11 n4 0MCS7 22 22 22 22

11 ac20MCS0 23 23 23 23

11 ac20MCS8 21 21 21 21

5G 11 ac40MCS0 21 21 21 21

11 ac40MCS9 20.5 20.5 20.5 20.5

11 ac80MCS0 20 20 20 20

11 ac80MCS9 19.5 19.5 19.5 19.5

2. 4 G: 11 X HE20: -70d Bm@MCS11 , -8 0dBm@MCS0 .

11 X HE40: -7 0dBm@MCS 11 , - 80 dBm@MCS0 .

11n HT20: -7 0dBm@MCS7, -8 0dBm@MCS0.

11n HT40: -7 0dBm@MCS7, -7 8dBm@MCS0.

11g: -68 dBm@54Mbps,-8 2dBm@6Mbps.

WIFI receiving 11b: -70 dBm@11Mbps,-8 5dBm@1Mbps.

5. 8 G: 11a: -72 dBm@54Mbps, -8 5dBm@6Mbps .

11nHT2 0: -75 dBm@MCS7, - 85d Bm@MCS0.

11nHT4 0: -75 dBm@MCS7, - 88d Bm@MCS0

11ac HT80 : -6 5dBm@MCS9

802 . 11n@MCS7 : ≤ -3 0 dB

4G LTE Technology

LTE-FDD Bands:

B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B

26/B28/B29/B30/B32/B66/B71

LTE-TDD Bands: B34/B38/B39/B40/B41/B42/B43/B48

4G Frequency Bands (LAA): B46 (Supports 2 × 2 MIMO)

Down 4 × 4 MIMO: B1/B2/B3/B4/B7/B25/B30/B32/B34/B38/

B39/B40/B41/B42/B43/B48/B66

WCDMA Bands: B1/B2/B3/B4/B5/B6/B8/B19

5G NR Technology:

5G Standard:

3GPP Release 15

NSA/SA operation, Sub-6 GHz

5G Networking:

NSA/SA

5G SA Transmission Speed:

2.1Gbps/900Mbps (up to ISPs)

5G NSA Transmission Speed:

2.5Gbps/650Mbps (up to ISPs)

5G NR Bands (NSA and SA):

n1/n2/n3/n5/n7/n8/n12/n20/n25/n28/n38/n40/n41/n48*/n66/n

71/n77/n78/n79

MIMO Technology:

Down: 4 × 4 MIMO on

n1/n2/n3/n7/n25/n38/n40/n41/n48/n66/n77/n78/n79

UP: 2 × 2 MIMO on n41 5G Modulation Modes:

GMSK/8PSK/BPSK/QPSK/16QAM/64QAM/256QAM

5G Cellular Details:

5G Baseband: Qualcomm® SnapdragonTM X55 Modem-RF

System

5G Network Modes: SA (Standalone), NSA (Non-Standalone)

5G Standards: 3GPP Release 15

5G SA Transmission Speed: 2.1Gbps/900Mbps (up to ISPs)

5G NSA Transmission Speed: 2.5Gbps/650Mbps (up to ISPs)

Experience the future of connectivity with iQsim NetLink Fortress. Elevate your connection speed and versatility. - Wherever. Whenever.