

# NETAIR 400

## 4G ROUTER

### OVERVIEW

NetAIR 400 Routers use high-speed 4G mobile networks to provide a robust, reliable, and cost-effective solution for your business.

NetAIR 400 series enables simple and fast configuration of business services, as well as greater agility in installation. The 4G access links can be used as a low-cost alternative in areas where terrestrial broadband services are expensive or unavailable.

Their redundancy and high-performance protocols make NetAIR 400 routers an excellent solution for businesses both as a backup element and as primary network gateway.

The main features of NetAir 400's are built-in, implying no need for additional hardware or software, thus allowing better cost-effectiveness and protection.

Firewall and IPSEC tunnels security features make the NetAIR 400 routers the ideal solution for businesses where data confidentiality is mandatory.

Whether in corporate internet access, M2M connectivity such as bank ATMs, IP cameras and telemetry systems, or for point-to-point access through a VPN, the NetAIR 400 routers are the perfect solution for applications requiring high availability, performance, security and lower costs.

### KEY FEATURES

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- ✓ 4G router with automatic redundancy
- ✓ 2 SIM card slots (one for primary connection and one for backup);
- ✓ Ready for 700MHz, 1800MHz, 2600MHz frequency bands.
- ✓ Works on 3G/4G with automatic handover of technologies
- ✓ Up to 300 Mbps download data rate over 4G mobile connection.
- ✓ Ipv4 and Ipv6 ready.
- ✓ High performance Ethernet router, supports advanced L3 services as BGP, VRRP and VRF
- ✓ H-QoS supports low latency queueing, and packets prioritization or marking
- ✓ Bandwidth monitoring policies and packets forwarding backup
- ✓ Stateful firewall

## SPECIFICATIONS

### INTERFACES

#### *ETHERNET SFP INTERFACES*

1 Gigabit optical/electrical Ethernet SFP port

Supports optical 1000 BASE-BX/LX/SX SFPs

#### *ELECTRICAL ETHERNET INTERFACES*

5 Gigabit Ethernet optical LAN ports, with auto MDI/MDIX via RJ-45 connector

Interfaces compliant with IEEE 802.3/802.3u/802.3ab

#### *4G INTERFACES*

2 female connectors for external antenna

2FF SIM card connectors

Diversity support (3G)

MiMo (4G)

Works on LTE-FDD, LTE-TDD, HSPA+, LTE, GSM/GPRS/EDGE (*see models*)

Automatic handover between technologies

PDP IPv4/IPv6/IPv4v6

### FEATURES

#### *ADMINISTRATION*

DHCP Server (RFC2131, RFC2132), Relay (RFC1542) and Client (IPv4 and IPv6)

DNS Relay

Dynamic DNS

NAT (RFC 1631), supports NAT

IPv4 and IPv6, either dynamic or static addressing

DNS Proxy (RFC3596)

PPPoE client (RFC2516)

IPv4 on IPv6 and IPv6 on IPv4

#### *MULTICAST*

IGMPv1, IGMPv2 and IGMPv3

PIM-SM

#### *ROUTING*

IPv4 and IPv6 routing

Static routing

RIPv1 (RFC1058), RIPv2 (RFC2453), RIPv6 (RFC2080)

MD5 authentication of dynamic routes (RFC 1321)

Floating route using weight or object tracking

Routing between VLANs

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OSPF (RFC2328) and OSPFv3 (RFC5340)

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VRRPv3

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BGP4

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VRF light

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### *SECURITY*

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Stateful packet inspection firewall

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Advanced access lists for traffic control

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Three level password authentication for accessing configuration mode

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AAA authentication: TACACS (RFC 1492), TACACS+, RADIUS (RFC 2138, RFC 2139)

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Packets filtering based on port number, interface, IP source and destination address, protocol, packet type, TCP flags;

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### *VIRTUAL PRIVATE NETWORK (VPN)*

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IPSec protocols (RFC 2401)

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GRE Tunnel Keepalive feature (RFC 2784)

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3DES or AES Encryption

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IKE key exchange (RFC 2409) and ISAKMP management (RFC 2408)

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NAT-Traversal via UDP (RFC 3947)

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Dead Peer Detection (DPD, RFC 3706)

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L2TPv2

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PKI Digital certificates: X.509

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Manual PKI management with import of certificates or PKCS#12 packages via TFTP, FTP and HTTP

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Automatic management (creation and renewal) of certificates via SCEP

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### *QUALITY OF SERVICE (QoS)*

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Bandwidth dynamic allocation based on classes of services

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Queueing strategy: FQ (Fair Queue), WFQ (Weighted Fair Queue), CBWFQ (Class Based Weighted Fair Queue) and LLQ (Low latency Queue)

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Packets prioritization based on Differentiated Services (DiffServ)

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Hierarchical Token Bucket (HTB)

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Classification, marking and conformation of incoming traffic

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Traffic classification based on: IP address and L3 and L4 protocols

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5 QoS classes

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Discard prioritization policy

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## CONFIGURATION AND MANAGEMENT

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Asynchronous serial interface for command line configuration (CLI)

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Telnet server or SSHv2 for both local and remote management

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SNMPv1, SNMPv2 and SNMPv3 agents with support for MIBII (RFC1213), iFTable, proprietary MIBs and traps

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Either local or remote import and export of configuration.

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Firmware upgrade via FTP, TFTP or HTTP

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NTP (RFC1305) with peers authentication

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Syslog (RFC3164) for logging and alert of error events and messages

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Debug and diagnosis tools

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Firmware redundancy

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Debug and diagnosis tools

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Reset button for resetting to default settings

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## HIGH AVAILABILITY

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Dual SIM with automatic switching between 3G/4G providers (*see models*)

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Monitoring of network stability and of 3G/4G access health

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Object Tracking system for checking link status, IP address, internet connectivity or routing

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Static routes enabled through object tracking

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## MECHANICAL, ELECTRICAL AND ENVIRONMENTAL FEATURES

### *POWER SUPPLY*

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Embedded full range (93 to 253V AC) power source

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### *ENVIRONMENT*

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Operating temperature: 0°C to 50°C

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Relative humidity: up to 95% non-condensing

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### *WEIGHT AND DIMENSIONS*

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Weight: 1.6Kg

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H x W x D (mm): 43 x 320 x 158

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AVAILABLE MODELS

NetAIR 400	WWAN Interface	Bands/Frequencies				GNSS	Peak Rate			Antennas and SIM Card			Ethernet Interfaces	
		LTE	WCDMA	GPRS/EDGE			LTE	WCDMA	GSM	Antenna Connector	Diversity(3G)/MIMO(4G)	Dual SIM	GbE (RJ45)	GbE (SFP)
5GR1GS-1LSA-2S-SAC	1	2100MHz(B1), 1800MHz(B3), 850MHz(B5), 2600MHz(B7), 900MHz(B8), 800MHz(B18), 800MHz(B19), 1500MHz(B21), 700MHz(B28), TD-2600MHz(B38), TD-1900MHz(B39), TD-2300MHz(B40), TD-2500MHz(B41)	2100MHz(B1), 850MHz(B5), 800MHz(B6), 900MHz(B8), 1700MHz(B9), 800MHz(B19)	-	-	D/L 300Mbps U/L 50Mbps	D/L 21Mbps U/L 5,76Mbps	-	2	x	x	5	1	
5GR1GS-1LSA-2S-SAC-G					x									
5GR1GS-2LSA-2S-SAC	2	2100MHz(B1), 1800MHz(B3), 2600MHz(B7), 900MHz(B8), 800MHz(B20)	2100MHz(B1), 1900MHz(B2), 850MHz(B5), 1800MHz, 900MHz(B8)	850Mhz, 900Mhz, 1800Mhz, 1900Mhz	-	D/L 100Mbps U/L 50Mbps	D/L 21Mbps U/L 5,76Mbps	D/L 296Kbps U/L 236Kbps	2	x	x	5	1	
5GR1GS-2LSA-2S-SAC-G					x									
5GR1GS-1LSB-2S-SAC	1	2100MHz(B1), 1800MHz(B3), 2600MHz(B7), 900MHz(B8), 800MHz(B20)	2100MHz(B1), 1900MHz(B2), 850MHz(B5), 1800MHz, 900MHz(B8)	850Mhz, 900Mhz, 1800Mhz, 1900Mhz	-	D/L 100Mbps U/L 50Mbps	D/L 21Mbps U/L 5,76Mbps	D/L 296Kbps U/L 236Kbps	2	x	x	5	1	
5GR1GS-1LSB-2S-SAC-G					x									
5GR1GS-2LSB-2S-SAC	2	2100MHz(B1), 1800MHz(B3), 2600MHz(B7), 900MHz(B8), 800MHz(B20)	2100MHz(B1), 1900MHz(B2), 850MHz(B5), 1800MHz, 900MHz(B8)	850Mhz, 900Mhz, 1800Mhz, 1900Mhz	-	D/L 100Mbps U/L 50Mbps	D/L 21Mbps U/L 5,76Mbps	D/L 296Kbps U/L 236Kbps	4	x	x	5	1	
5GR1GS-2LSB-2S-SAC-G					x									
5GR1GS-1WSC-2S-SAC	1	-	2100MHz(B1), 1900MHz(B2), 850MHz(B5), 900MHz(B8)	850Mhz, 900Mhz, 1800Mhz, 1900Mhz	-	-	D/L 7Mbps U/L 5,76Mbps	D/L 296Kbps U/L 236Kbps	1	-	x	5	1	
5GR1GS-1WSC-2S-SAC-G					x									
5GR1GS-2WSC-2S-SAC	2	-	2100MHz(B1), 1900MHz(B2), 850MHz(B5), 900MHz(B8)	850Mhz, 900Mhz, 1800Mhz, 1900Mhz	-	-	D/L 7Mbps U/L 5,76Mbps	D/L 296Kbps U/L 236Kbps	2	-	x	5	1	
5GR1GS-2WSC-2S-SAC-G					x									



For further information, visit [www.parks.com.br](http://www.parks.com.br).

*The information presented in this document is subject to change without prior notice.*