

AIMroute comX4

Industrial cellular dual Wi-Fi all-in-one router.

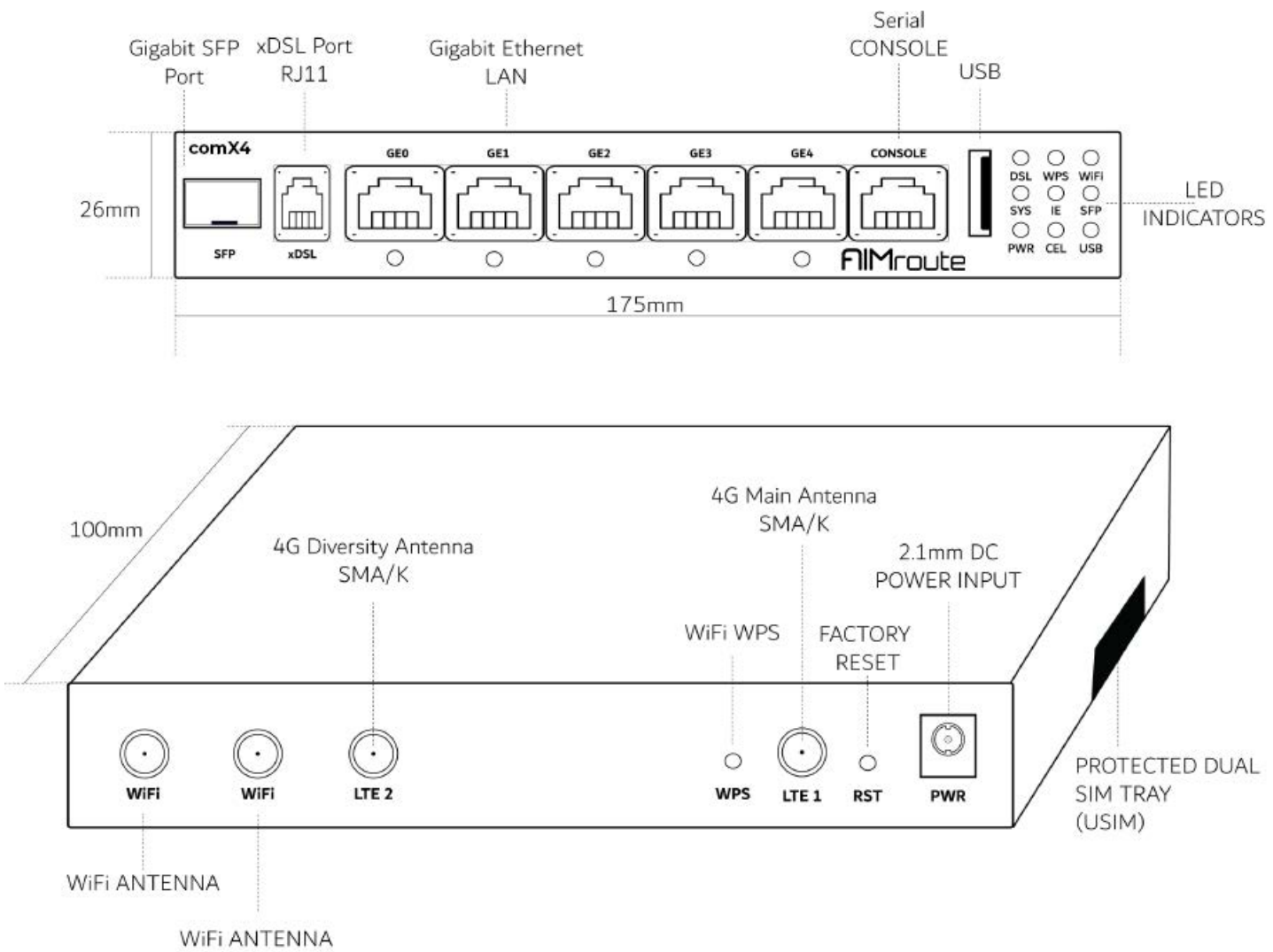
Description

The AIMroute comX4 is an industrial high-speed data router designed for uses cases such as medium business branch offices, clinics, retail stores, in-vehicle communications, lottery terminals, mission critical multi WAN applications, cash registers and crowded networks. The AIMroute comX4 provides 5 x RJ45 LAN/WAN 10/100/1000T GbE ports, 1 x 1.25 Gbps SFP port, CAT4/CAT&/CAT12 Single Cellular WAN. 1 x xDSL WAN and 2 x SIM slots.



AIMroute comX4

Front View



Rear View

Specifications

Item	Description
Physical Interfaces	
xDSL	1 x xDSL WAN (ADSL/ADSL2/VDSL/VDSL2)
Ethernet	5 x RJ45 Switchport LAN/WAN 10/100/1000T GbE
Cellular	CAT4/CAT6/CAT12 Single Cellular WAN
WiFi	2.4GHz and 5.8GHz Wi-Fi bands
Fiber Optical	1 x 1.25Gbps Fiber MiniGbic SFP port (LAN/WAN)
SIM	2 x SIM Slot (Active/Passive Redundancy Failover)
Power	1 x Screw Type DC Power Socket
Antennas	2 x LTE-A SMA Antenna (2x2 MIMO) 2 x WiFi SMA Antenna (2.4GHz/5.8GHz)
Status LEDs	1 x Power, xDSL, WAN, NET, LAN1~5, Wifi4, WiFi5, WPS, LTE, SFP, SIM
Environmental Specifications	
Enclosure	Desktop Form-Factor
Dimensions (W*H*D)	175mm x 100 mm x 26 mm
Weight	822 gr.
PCBA	Industrial Type-4 hybrid PCBA
Shell Material	Industrial IP54 metal shell
Operating Temperature	-40°C~+75°C
Operating Humidity	< 95% (non-condensing)
Ingress Protection Rating	IP54
Mounting	Sideways Wall Mounting Kit
Port Self-loop Detection	Support
Import & Export	
HS Code	85.17.62
HTS	8517.62.00
Standard Package	
Router	1 x comX4
Power Supply	1 x 45W 12VDC Power Supply
Wi-Fi Antenna	2 x RP-SMA Male
LTE Antenna	2 x SMA 2.5m Male
Ethernet Cable	1 x 1m. straight patch
Hole Thumb	1 x SIM tray thumb

Cellular Modem	
Modem Quantity	Single, CATEGORY 4, CAT6, CAT12
Bands	LTE-FDD: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/32/66/71; LTE-TDD: 34/38/39/40/41/42/43/46/48 (LAA)/48 (CBRS); Up to 3 × CA: Intra-band and Inter-band; WCDMA: B1/2/3/4/5/6/8/19
Data	LTE-FDD: Max. 600 Mbps (DL)/ Max. 150 Mbps (UL); LTE-TDD: Max. 408 Mbps (DL)/ Max. 90 Mbps (UL) DC-HSDPA: Max. 42 Mbps (DL)/ HSUPA: Max. 11.2 Mbps (UL) WCDMA: Max. 384 Kbps (DL/UL)
Electrical Characteristics	Output Power: Class 3 (23dBm±2dB) for LTE FDD Class 3 (23dBm±2dB) for LTE TDD Class 3 (24dBm+1/-3dB) for TD-SCDMA Class 3 (24dBm+1/-3dB) for WCDMA Class E2 (27dBm±3dB) for EDGE 850/900MHz Class E2 (26dBm+3/-4dB) for EDGE 1800/1900MHz Class 4 (33dBm±2dB) for GSM 850/900MHz Class 1 (30dBm±2dB) for GSM 1800/1900MHz
3gpp Release Bridging	Consumption: 20uA @Power off. 3mA @Sleep, Typ. Release 10/11 depending on the hardware version Direct connection (bridge) between Modem Interface To LAN
Wireless	
Wireless Mode	IEEE 802.11b/g/n/ac (866 Mbps), AP, Station, Client, bridge mode support
Wi-Fi Security	WEP, WPA and WPA2 encryption with AES-TKIP
Wi-Fi Clients	Up-To 80 simultaneous Wi-Fi clients
Networking	
Routing	Static routing, Dynamic routing (BGP, OSPF v2, RIP v1/v2, NHRP), Policy based routing, MPLS (Basic)
Network Protocols	TCP, UDP, IPv4, IPv6, ICMP, NTP, DNS, HTTP, HTTPS, SFTP, FTP, SMTP, SSL/TLS, ARP, VRRP, PPP, PPPoE, UPNP, SSH, DHCP, Telnet, SMPP, SNMP, MQTT
Connection Watchdog	Ping Reboot, Scheduled Reboot, LCP and ICMP for link detection
Firewall	Port forward, traffic rules, custom rules, DDoS, Stateful Inspection, ACL rules, IP Filter, Domain Filter, MAC Filter
DHCP	Static and dynamic IP allocation, DHCP Relay

QoS	Traffic priority queuing by source/destination, service, protocol or port, WMM, 802.11e
DDNS	Supported >20 service providers, un-supported providers can be configured manually
Network Backup	Wi-Fi WAN, Cellular WAN, VRRP, Ethernet WAN can be configured as an automatic Failover
Load Balancing	Traffic sharing with EF Protocol over running WAN ports
VPN	
Tunneling Protocols	IPSec GRE (L3) GRE (L2) mGRE DMVPN L2TP PPTP STunnel / SSL VPN (Certificate Support) WireGuard Client OpenVPN Client
ModBus TCP	
Slave	Respond to one ID in range 1 to 255 or any, allow WAN access, custom registers support
Master	Various functions support, 8-bit, 16-bit and 32-bit formats support HTTP(S), Mqtt support
Management & Monitoring	
Standard Protocols	Telnet, SSHv1, SSHv2, WEB UI, CLI
SNMP	Telnet, SSHv1, SSHv2, WEB UI, CLI
Telco	TR069 w/ TR181 & TR098 datamodels integrated
Cloud Based Management	AIMroute-Cloud remote monitoring and management platform Traffic flow reporting Instant statistic data Adjustable SLA Levels Rule based live alarm control Bulk remote configuration Scheduled remote configuration editor SD-LAN passthrough GPS/GNSS location with tracking Niatech AIS (Automated Installation System) On-Premise option

Compliance Specifications	
Certification Compliance	CE-RED, RoHS, REACH, WEEE
Environmental Compliance	IP Rating: IP54 E-Mark (Transportation compliance) Vibration: IEC60068-2-6/EN50155/ EN61373 Health: EN62311 EMC: EN 301-489-1/-7/-17/-24 EN 55022, EN 55024
Ordering Information	
Order Codes	comX4-LTE comX4-LTE/A comX4-LTE/+