

# AscentModem 5G

## Multi-platform 5G Connectivity

The Ascent Modem 5G is an industrial strength 5G modem that delivers seamless, ultra-fast 5G and 4G/LTE cellular connectivity. With dual SIM flexibility, Ascent Modem 5G enables multi-network and high-speed internet access for users in fixed or mobile applications.

Supporting 4x4 MIMO with four individual SMA ports, external antenna installation allows for even more flexibility and performance improvements.

## Ultra Fast Throughput, Worldwide

### 5G/4G LTE Cellular Modem

Kognitive Networks' Ascent Modem 5G brings ultra-fast 5G and fallback 4G/LTE connectivity to a wide range of environments.



## Optimized Connectivity

C-Band support and carrier aggregation for up to 120 MHz channel bandwidth



### Advanced 5G Technology

Offers 5G connectivity with 4G/LTE fallback, ensuring consistent high-speed internet access in urban and remote locations.



### Dual SIM with Comprehensive Compatibility

Features dual SIM slots and USB-C for data /power, compatible with Linux, Android, Windows 10/11, and EdgeOS



### Optimized for High Throughput

Supports MIMO carrier aggregation for superior data transmission rates.

## Versatile and Portable 5G

### Compact and Durable

Rugged aluminum design with external antenna ports, Ascent Modem has removable feet and heatsink for mechanical mounting in tight locations

### Comprehensive Connectivity

5G SA/NSA, 4G LTE with 4x4 MIMO

# Technical Specifications

5G NR SA	NR Bands	n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n28/n29/n30/n38/n40/n41/n48/ n66/n70/n71/n75/n76/n77/n78/n79
	DL 4 x 4 MIMO	n1/n2/n3/n7/n25/n30/n38/n40/n41/n48/n66/n70/n77/n78/n79
	UL 2 x 2 MIMO	n38/n41/n48/n77/n78/n79
5G NR NSA	NR Bands	n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n28/n29/n30/n38/n40/n41/n48/ n66/n70/n71/n75/n76/n77/n78/n79
	DL 4 x 4 MIMO	n1/n2/n3/n7/n25/n30/n66/n38/n40/n41/n48/n70/n77/n78/n79
LTE	FDD Bands	B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/ B30/B32/B66/B71
	TDD Bands	B34/B38/B39/B40/B41/B42/B43/B46(LAA)/B48
	DL 4 x 4 MIMO	B1/B2/B3/B4/B7/B25/B30/B38/B40/B41/B42/B43/B48/B66
WCDMA	Bands	B1/B2/B4/B5/B8/B19
GNSS	RX Bands	GPS/GLONASS/BDS/Galileo/QZSS



Cellular WAN Interface	5G SA / NSA, 4G LTE – 4x4 MIMO
SIM Slots	2x nano SIM
Throughput	Peak DL/UL Mbps: 5G NSA 3400/550, 5G SA 2400/900, LTE 1600/200 CAT-19/CAT-18
Connectors	4x SMA-F Cellular, 2-pin Molex External Power, USB Type C
Power & Data	USB3.2, backwards compatible with USB2.1 [Opt. Ext. Power: +9 VDC to +24 VDC]
Power Consumption	5W nominal, 8W max
Physical	113.4mm x 67.3mm x 27 mm / 4.5" x 2.75" x 1.1" – 0.45 lbs / 200g
Environmental	Operating temp: -10 to +50 C; Humidity up to 95%, non-condensing
Certifications	CE, FCC, RoHS, PTCRB
US Carrier Certifications	Certified for use on ATT, T-Mobile, Verizon
Warranty	1 year limited

