

**Optimized 5G NR performance for applications requiring Gibabit speed, the EM9291 module is part of the EM Series offering global 5G connectivity.**

Designed in an M.2 form factor, the EM9291 is compatible with Sierra Wireless’s EM9191 module for a simple upgrade path to get the latest standards compliance and bands, as well as the EM7690 module to help facilitate the migration and differentiation between 4G LTE and 5G.

This 5G NR Sub-6 GHz embedded module delivers up to 4.9Gbps downlink speed and 660Mbps uplink speed. With automatic 4G and 3G fallback networks and integrated GNSS receiver (GPS, GLONASS, BeiDou, and Galileo satellite systems supported), the EM9291 is applicable to a wide range of IoT applications such as industrial routers, home gateways, industrial and consumer laptops, rugged tablet PCs, video surveillance and digital signage.

## Specifications

<b>5G NR</b>	
<b>Category</b>	5G NR Sub-6
<b>Frequency Bands</b>	n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n38, n39, n40, n41, n46, n48, n66, n70, n71, n75, n76, n77, n78, n79
<b>4G LTE</b>	
<b>Category</b>	Cat-20
<b>Frequency Bands</b>	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B18, B19, B20, B21, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B43, B46, B48, B66, B71
<b>DATA SPEED</b>	
<b>Peak Download Rate</b>	4.9 Gbps
<b>Peak Upload Rate</b>	660Mbps
<b>LOCATION SERVICES</b>	
<b>Satellite Systems</b>	Galileo, Glonass, GPS, Beidou (Bands: L1 and L5)

<b>EMBEDDED SOFTWARE</b>	
<b>Firmware</b>	Secure boot, Pre-certified firmware
<b>System Drivers</b>	Windows® 10, Linux, Android RIL
<b>INTERFACES</b>	
<b>USB</b>	USB 3.1
<b>PCIe</b>	PCIe generation 3 (or 2), 1 lane
<b>HARDWARE</b>	
<b>Dimensions</b>	30x52x2.38mm
<b>Temperature Range</b>	-30°C / +70°C, -40°C / +85°C
<b>APPROVALS</b>	
<b>Carrier</b>	AT&T (FirstNet), NTT Docomo, Dish, KDDI, LGU+, Softbank, T-Mobile, Telstra, Verizon
<b>Regulatory</b>	FCC, GCF, IC, KCC, PTCRB, EU RED, JATE/Telec
<b>EMBEDDED SIM</b>	
<b>EMBEDDED SIM</b>	Onboard consumer eUICC (optional)