

3 FREQUENTLY USED ENTERPRISE CONNECTIVITY APPLICATIONS

INTRODUCTION TO ENTERPRISE CONNECTIVITY

Enterprise connectivity "**connects**" enterprise endpoints and branches to the resources they need to function, and it's critical for businesses across all verticals.



IMPORTANCE OF ENTERPRISE CONNECTIVITY APPLICATIONS

Reliable connectivity is vital for business success in today's digital world to facilitate novel applications and boost profits. Three **commonly used applications** are video monitoring, sensing, and augmented/virtual reality. Let's explore the benefits of each in the following slides.



1.) VIDEO MONITORING

5G connectivity allows for remote video monitoring of production assets, enabling remote operation of vehicles on factory floors, delivering remote care to patients, and more.



VIDEO MONITORING BANDWIDTH NEEDS

Video monitoring has high bandwidth needs due to the data-intensive nature of video footage. Non-cellular connectivity technologies like Wi-Fi are limited in providing robust handovers between access points for mobile assets.



VIDEO MONITORING MARKET OPPORTUNITY

ABI Research forecasts **300,000** video surveillance connections using 5G by 2026. 5G connectivity can increase the speed of mobile assets by 30% due to robust handovers, making it ideal for video monitoring and remote operations.



2.) SENSING

Massive wireless sensor networks require reliable connectivity, and 5G's Massive Machine-Type Communications (mMTC) capabilities are ideal for sensing use cases across multiple verticals (e.g., oil & gas fields or mines, predictive and preventative maintenance for manufacturing equipment).



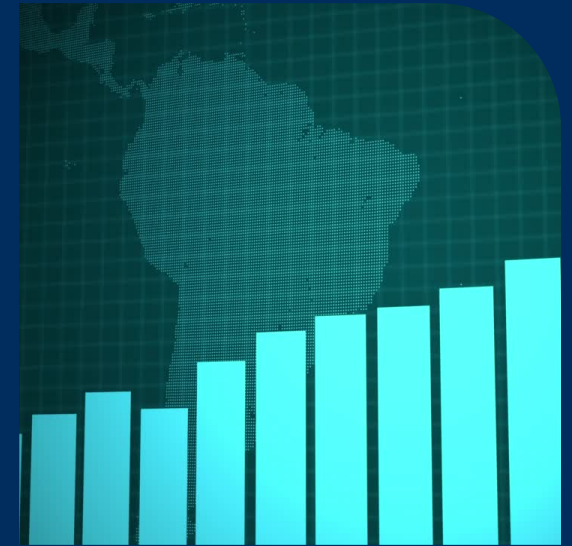
SENSING CONNECTIVITY NEEDS

Sensing applications do not require exceptionally high bandwidth needs or low latencies but benefit from the Massive Machine-Type Communications (mMTC) capabilities of 5G.



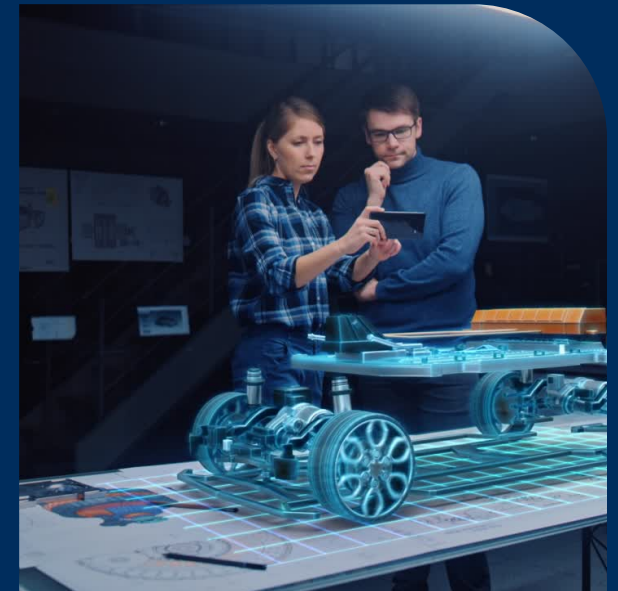
SENSING MARKET OPPORTUNITY

There will be roughly **35 million** true Machine-to-Machine (M2M) Internet of Things (IoT) connections powered by 5G connectivity in 2026 (excluding mMTC and Ultra-Reliable Low Latency Communication (URLLC) applications), according to ABI Research.



3.) AUGMENTED REALITY/VIRTUAL REALITY

5G enterprise connectivity can create digital twins of production assets or provide enhanced training capabilities for medical personnel. AR/VR use cases in retail and hospitality can provide immersive experiences for customers.



AR/VR BANDWIDTH REQUIREMENTS

AR and VR applications require more bandwidth than video monitoring due to the complexity of the footage.



AR/VR MARKET OPPORTUNITY

ABI Research expects just over **30 million** smart glasses to ship annually by 2026 for enterprise applications, providing an excellent opportunity for immersive experiences in retail and hospitality.



To learn more, check out the [**Hyperscaler Strategies for Enterprise Connectivity**](#) research report today.

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