Intel® Atom™ x3-M7272

Communications Solution for Security-critical Automotive and M2M/IoT Applications

Proven LTE technology. Advanced Security Features.

The Intel® Atom™ x3-M7272 solution provides automobile manufacturers a full-featured wireless communications platform combined with an integrated CPU capable of powering advanced security features, such as firewalling, packet inspection, intrusion detection and intrusion prevention.

Intel Atom x3-M7272 leverages the global operator acceptance of the Intel® XMM™ 726x modem and Intel Atom x3 platform, enabling auto manufacturers to more rapidly commercialize their connected systems. It delivers Cat 6 LTE Advanced connectivity with download speeds up to 300 Mbps for data-intensive applications such as video streaming, 3D map downloads and software updates.

Integrated Wi-Fi, Bluetooth and GNSS extend the platform's high-speed LTE connectivity and user experiences to the in-vehicle environment, enabling Wi-Fi hot spot functionality for wireless video streaming, precision navigation, locking and unlocking doors, and connectivity to Bluetooth-enabled devices such as mobile phones, wireless headsets and more.

The solution's quad-core Intel Atom processor drives security features and extends system life and utility by providing processing power for future applications and services.

Product Features

Multi-radio Design for Cellular & Short-range Wireless Applications	▪ 5-mode LTE Advanced modem with data rates up to 300Mbps downlink ▪ Integrated 802.11ac Wi-Fi for in-vehicle "hot spot" ▪ Bluetooth 4.2 with BLE for in-vehicle sensor connectivity and door lock/unlock capability ▪ GNSS supporting all major standards ▪ Advanced thermal management providing connectivity in extreme conditions ▪ eCall support
Robust Security Features	▪ Virtual Machine (VM) for customer applications with hardware support ▪ Isolation of VM memory regions with hardware support to enable secure applications ▪ Interfaces assignable to VMs with hardware support ▪ Secure boot based on RSA data encryption with up to 4096 bit keys ▪ Hardware security lock to protect stored data
Long Life & Extensibility to Future Applications	▪ Integrated quad-core Intel® Atom™ processor ▪ Extended temperature, AEC-Q100 enabled silicon ▪ Integrated Ethernet MAC with AVB support ▪ Additional functionality based on firmware upgrades ▪ Long life availability & support program

Intel® Atom™ x3-M7272 Technical Specifications

Modem	LTE Cat. 6 LTE FDD/TDD DC-HSPA+ TD-SCDMA GSM/GPRS
CPU	64-bit quad-core Intel® Atom™ processor
Memory	LP-DDR2/3 1x32 1066MT/s
Operating System	Linux
Architecture	Distributed Ethernet
Connectivity	WLAN 802.11 a/b/g/n/ac Bluetooth* 4.1 +LE ; Concurrent + LE Satellite Navigation: GPS, GLONASS, Beidou, Galileo + augmentation systems

For more information on Intel® Wireless products, visit:

http://www.intel.com/ mobile communications

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