

XMODULE™

Hybrid IoT Communications System-on-Module / Sensor Suite

New Product
Prelim/Confidential



Xccelerate your IoT product development

XMODULE™ provides designers core Internet of Things (IoT) communication and sensor capabilities within a single, compact, fully-certified system-on-module (SoM) ideal for rapid integration into a wide range of products. With an ultra-low power architecture and patent-pending active radio and zero-power passive technologies, XMODULE™ enables flexibility for your product on the ground and in the cloud.



XMODULE™ Benefits

Core IoT Functions. One Interface.

Leverage professional cloud connectivity and event sensors optimized for ultra-low power with a simple firmware interface

No Gateways or Power Required

Connect your product direct-to-Cloud using cellular/long-range radio or interface to zero-power RFID/NFC devices anytime

Fully Certified

Take your IoT product to market faster with reduced technical risk, fewer resources and less development investment

Key Features



Long-Range Radio & Sensor Suites

LTE-M, NBIoT or LoRa, RFID and NFC coupled with temp, humid, light, drop/tilt/accel and geolocation



Ultra-low power architecture

Deep hibernate wakeup integrated into cellular, LoRa, sensor and zero-power RFID/NFC events



Easy Design-in

XBee® compatible for new boards, plug-n-play with Arduino® or use GPIO/USB to connect externally

Use Cases



Smart Cities

Audit remote assets or meters while allowing authenticated interaction with city personnel



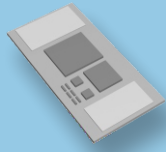
Industrial IoT

Monitor and alert on health of facility or field equipment and log local service events



Legacy Products

Onboard your non-cloud-connected products to the IoT without overhauling hardware designs

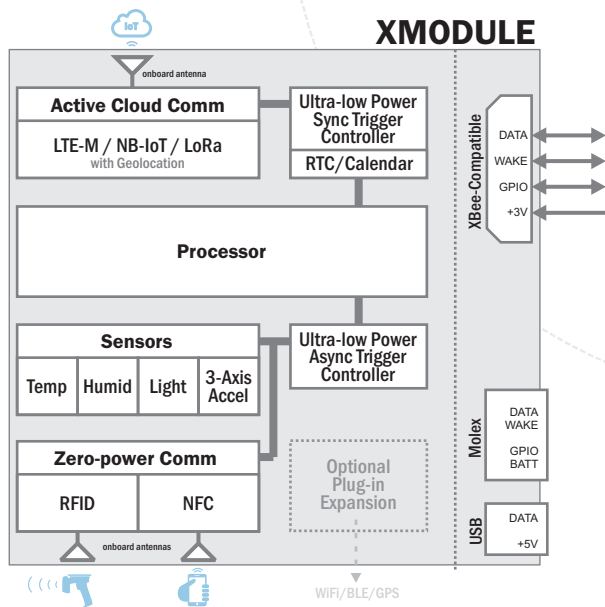
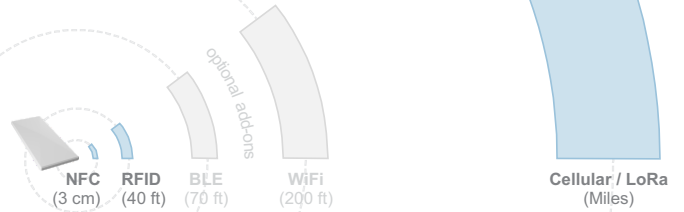


XMODULE™ Family Details

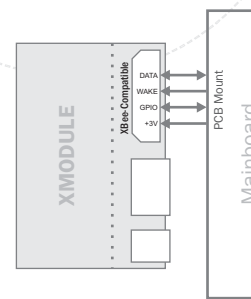
- XMODULE-C (LTE-M1 Cellular)
- XMODULE-L (LoRa)

Dynamic IoT Connectivity

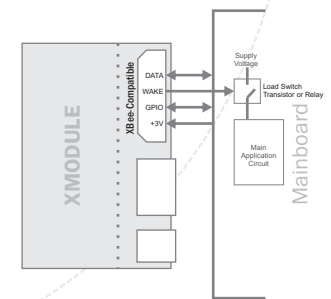
XMODULE™ includes short, medium and long-range active and zero-power radios with pre-certified, onboard antennas that maximize the connectivity and interactivity of your product. Connect directly to your cloud, authenticate your product, read/write via passive RFID interrogators or interact directly with NFC smartphones. Feature-rich add-ons can also be added for extended functionality including BLE, GPS and WiFi (optional)



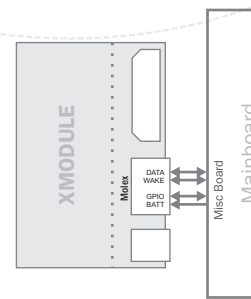
Host Control Mode



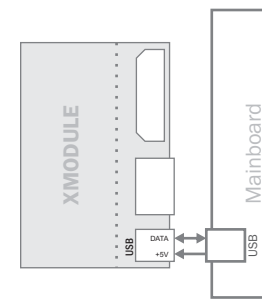
Ultra-low Power Control Mode



Internal/External Retrofit



External USB



API and XCLOUD Data Platform

XMODULE™ is a flexible IoT module that can be integrated directly into your IT infrastructure through a manual API.

To speed time-to-market, Seonic also provides a 2-tier data platform service called XCLOUD. Tier 1 provides cellular connectivity and a secure VPN tunnel to your IT systems. Tier 2 adds a fully-managed device management and analytics solution. For more information about XCLOUD please contact us.

