Telit ® wireless solutions

Making machines talk.®

Telit **AppZone**

A POWERFUL EMBEDDED M2M PROGRAMMING SYSTEM

EMBEDDED OR EXTERNAL?

THE ANSWER IS THE TELIT APPZONE PLATFORM.

Trying to decide over an external micro controller or considering embedding your application into a wireless module? The answer is the Telit AppZone, an environment that we developed as an integrated platform that runs in the Telit G30 module and provides an advantageous "all-in-one" solution. It allows you to save time and money because the M2M module can perform all the key tasks normally associated with an external microprocessor.

You will be surprised about the capabilities due to the efficient platform implementation and its inherent flexibility. Whether you are planning a new tracking application, an innovative healthcare device, a trend-setting Automatic Meter Reading component or any other m2m application, Telit AppZone could meet your needs whilst minimizing your effort and costs.

The result is a faster TTM (Time to Market) – If your company has an idea for a new M2M application with Telit AppZone you have a real head-start to make sure the development is fast and efficient.

THE BENEFITS COME FROM SIMPLICITY AND STANDARDIZATION.

Simplicity:

- Run your software application in the Telit G30 module and manage peripherals, communicate with the module and connect to the network. You don't need an external micro controller to manage this activity.
- Host the application in the internal memory space reserved in the module. With no need for external flash memory, nor additional electronic components and their integration, this can reduce Bill of Material and design complexity.

Standardization:

- Develop using high-level language. The Operating System has been optimized and developers can program in standard C language bringing confidence to smoothly integrate within the platform environment. You don't have to start with a low level language and worry about future efforts for its maintenance and updates.
- Integrate easily and quickly all interface functions you need because Telit AppZone is an open platform compliant to BSD (for Sockets) and Posix (for FS and HW control). It allows developers to implement applications using their knowledge on open software, libraries and protocols.

Telit AppZone is the integrated and all-in-one-solution that runs in the Telit G30 module.

Less investment
Fast time-to-market
Most effective

Telit AppZone is the perfect platform to develop quickly and without additional or hidden costs many kinds of application that require low cost and fast development time. For these reasons, it is the perfect platform to adopt when you are a small-mid size company and want to go to the market quickly and without the need to invest huge amount of money to develop and integrate external solutions.

TELIT APPZONE – HERE'S WHAT YOU GET.

Telit provides a full development environment installation package that includes all you need to start develop immediately

Eclipse IDE with skeletons, APIs and sample code libraries

The installation package contains a ready to use version of Eclipse IDE with an integrated skeleton (pre-defined) structure of files that are created automatically every time you begin a new project. In this way the programmer has a perfect starting point to begin his work and does not have to loose time to define the mandatory structure of the code. Several examples are ready to be imported in to your workspace and developers can take or modify the source codes without the need to start from scratch. Several APIs are included to control the module, saving you precious time to develop dedicated codes to access core functionalities.

Enhanced documentation, flashing, browsing, logging & debugging tools, production guidance, OTA, exception log and a special PC gadget

The installation package contains all the documentation guides for hardware and software implementation, a flashing tool, a logging tool, a debugging tool, a file system tool, a production guidance, a complete Over-The-Air (OTA) solution for updates, triggering and package creation and an exception log to monitor and manage updates. In addition, a special gadget for windows platform has been developed to easily access main tools and documentation.

Evaluation Kit

An Evaluation Kit is available to connect easily to the G30 module and immediately begin your application development. Refer to your local Telit sales representative for further information.

Enhanced features that assure safe deployment

OTA mechanism
Recovery mechanism
Reference design for external watchdog
Multiple units flashing tool

Full and continuous commitment for supporting customers

Telit is fully committed for supporting customers during all phases of development, design and production. Moreover you can exchange your experience joining the Telit Technical Forum at www.telit.com/techforum.

Telit AppZone

TELIT APPZONE'S KEY FEATURES

Interrupt Latency

Our interrupts are real and fast (130µsec) – allowing you to develop applications that need real-time actions

AT command tunneling

You can run safely AT command based scripts in the Telit AppZone, exactly like an application with external micro controller

Multi-tasking with IPC feature

You can run up to 5 applications simultaneously, getting the right priority and allowing the cellular module and the managing application to act together as a single and efficient entity without interfering with each other. Moreover Inter Process Communications (IPC) is available to send signals between applications

Over-The-Air (OTA) updates

A simple to use OTA solution to update your application and generate, trigger and send packages with an intuitive server interface.

Low power consumption

In Deep Sleep mode the G30 consumption is only 75µA, with only the Real Time Clock (RTC) running. You can set wake-up alarms to be executed at regular time intervals and save battery power.

File System and memory

We have designed the AppZone in an efficient way to provide lots of room (FS NVM, Flash and RAM) in our platform which can meet your application requirements.

Technical Specifications

Programming Language:	Standard C
IDE:	ECLIPSE IDE + M2M plugin
File System:	1MB
Separate App Space:	512KB
Separate App RAM Space:	512KB
GPIO's:	14 (with 2 Real Interrupts)
A2D:	2 (10 bits resolution)
Interrupt Latency:	130µsec
UART:	1UART
Sockets:	Unlimited – memory dependancy
Standard Interfaces:	IP Socket (BSD), FS (Posix), UART

Interfaces to OS functions
I2C
AT commands tunneling
Deep Sleep – RTC control
Recovery Mechanism
SSL
OTA Supported

Package Content

Developer Guides HW & SW, API's and Examples
Flashing tool
Logging tool
Debugging tool
File System Tool
Production guidance
OTA local tools
Exception log
Multiple units flashing tool

Additional services

On Site Training
Code Review
Schematic Review
Telit Technical Support Forum

You want more detailed information about the Telit AppZone?

Visit →→ www.telit.com/appzone or
contact your regional sales representative
→→ www.telit.com →→ Contact

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