licera



Now you are able to develop your own wireless telematic and M2M applications. Use your own skill in C, reuse existing software together with a lot of included powerful modules. The MTU-5g is equiped with a 12-channel GPS recevier to maximize the reliability in professional tracking and positioning applications.

Application Development Kit for MTU-5g

Product Snapshot

- An MTU-5g with antennas and serial cable
- C-Compiler
- · Software libraries with full API-documentation
- · A rich set of application examples

Application Development Kit for MTU-5i

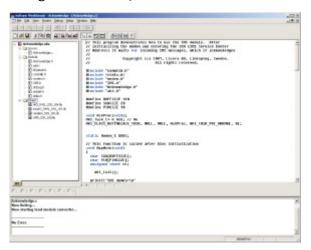
Providing a technically advanced platform for the wireless telematic and M2M community, Licera now offering a powerful application development kit. The development kit is designed for end users, third-party software developers and service providers. The ADK consists of a development suit including a graphical C-Compiler (IDE), full API-documentation, code examples and much more.

Software platform

The software solution is designed in layered structure which makes it easy to add new software modules. The generic software libraries together with the special M2M-utility library helps the developer focusing on the target application. Communicating using SMS, CSD, serial ports (RS-232 and RS-485) or getting an accurate position from the GPS is made very easy. The process oriented operating system enables multi-threaded software designs which, together with the memory manager, creates a future proof environment. Storing persistent data is handled using the embedded file system (EFS) which of course has automatic crash-recovery. Licera will continue to update the software library with new features and functionality to provide you with the best wireless telematic platform on the market.

If you're a third-party software developer, solution provider, service provider or end user you can now take full advantage of our mobile telematic platforms. Software is developed using ANSI-C in a full featured IDE (Integrated Development Environment). The resulting firmware are then easily downloaded with a serial cable connected between your PC and the MTU.





Software modules

GPS

- · Handles both active and passive antenna
- · Easy-to-use data structures
- · Prevents antenna shortcuit overload
- · Supports fast warm start

OS

- · Multi-threaded
- Process priorities and messages
- · Dynamic memory manager

SMS

- Intelligent queuing with automatic retransmission
- Handles both 7 and 8 bit encoding
- Presents originating phone number

Modem

- · Automatic dial-up service
- · Hangup detection
- CLIP (Calling Line Identification Presentation)
- Voice and data calls (V.24 and V.110)

EFS (Embedded File System)

- · Persistant data storage
- · Automatic crash recovery
- ANSI-C syntax

Comm (Serial communication)

- Encapsulates all streaming channels
- · Easy configuration

DIO (Digital Inputs and Outputs)

- · Programable interrupts
- Detection of overloaded and shortcircuited outputs
- · Open load monitoring

RTC (Real-Time Clock)

- · Presents time and date
- ANSI-C syntax

```
GPS_Pos* pos;
pos = GPS_GetPos();
if( pos }{
    //Operation on structure
    printf("Lat=\foints", pix=\foints", pos->lat,
    pos->lon, pos->height, pos->sats,
    pos->hour, pos->minute, pos->second,
    pos->fix );
    PS_FreePos(pos);
} else {
    printf("No reading\r\n");
}
```

Example: Acquiring GPS position

```
Example: Send an SMS

SMS_t* pSMS;
unsigned short id;
char* recipient="+46707573920";
char* SCA="+46707990001";

//The SMS will be sent without retry
//and given normal priority in queue
pSMS = SMS_CreateMessae(recipient, SCA, msg,
SMS_CODING_7BIT, 1, 0);
id = SMS_Send( pSMS );
```

Deliverables

This product ships with:

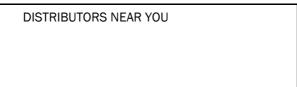
- MTU-5g
- 18-pin socket
- · GSM antenna
- GPS antenna
- Serial cable
- CD with compiler, documentation and software libraries
- 3,5"-disk with additional software libraries (for GPS-development).

Order Number

5100 00001 7 (ADK for MTU-5g)

Related products

ADK for MTU-5i, MTU-5, MTU-5i, MTU-5g





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