

S1757 Software Development Kit

USER APPLICATION DEVELOPMENT

TagMaster Software Development Kit (SDK) is a complete package for user application development for TagMaster readers and PCs. The kit is used under Windows 9X, ME, NT, 2K, XP.

The kit includes compilers, loaders, tools, drivers and libraries, supporting the complete development phase for user applications.

Reader applications are developed in the C language in a PC environment with the cross compiler ConfiComp and can be executed in the PC for testing and debugging. The complete software is finally downloaded, using ConfiLoad, to the reader for permanent storage in EEPROM. PC applications are developed with externally available development environments. For application programmers, ConfiTalk Commander is available for training and low level communication management.

CONFILIB

ConfiLib is a function library with hundreds of functions for reader management and ConfiTalk protocol handling. There are ConfiLib versions for readers as well as PC environments including Windows 9X, ME, NT, 2K, XP.

The reader version of ConfiLib is a function library package in C language. For PC environments, the ConfiLib API comes as a dynamic link library (DLL) with C/C++ interface. There are also interface modules for Visual Basic and Delphi included. Typical functions include read/write/format ID-tags, read/write/search database, HW/SW configuration, read/write I/O, ConfiTalk send/receive, timers, buffers, mail management etc.

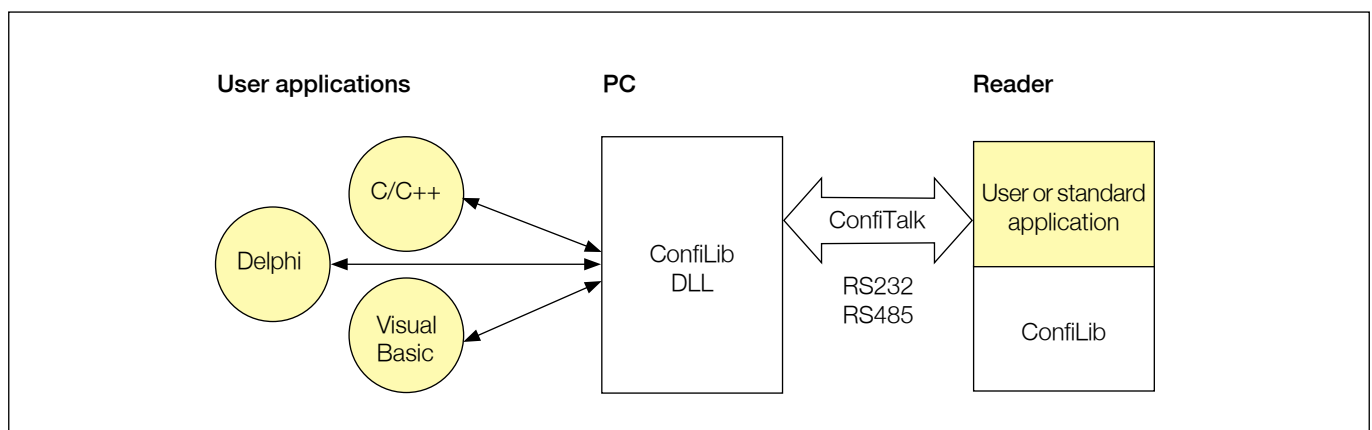
CONFITALK

ConfiTalk is the standard serial communications protocol used by the readers. The protocol transfers data to and from a reader and handles flow control, retransmissions, checksums and data transparency. It can be used both for point-to-point and multidrop networks, using a polling procedure. The frames have the following structure:



The STX field is the start-of-text character.
The ADR field is the address and sequence number.
The MESSAGE field is the data to be transmitted.
The CS is a checksum for transmission error detection.
The ETX is the end-of-text character.

ConfiTalk can also be replaced by a user defined protocol.



SPECIFICATION

The TagMaster SDK includes the following products:

Product	Art. No.
ConfiLib	S1750/00
ConfiComp	S1754/00
ConfiLoad	S1751/00
ConfiTalk Commander	S1755/00
S1500 Demo Application	510286

ConfiLib

The ConfiLib S1750/00 comprises of a CD-ROM package with software libraries for all the platforms Windows 9X, ME, NT, 2K, XP and readers. A complete manual set with Programmer's Guide, ConfiLib C Reference Manual, ConfiTalk Reference Manual, ConfiLib Visual Basic Interface Manual and ConfiLib Delphi Interface Manual is included.

ConfiComp

The ConfiComp S1754/00 is a full featured C Cross Compiler for developing reader applications. Runs under Windows 9X, ME, NT, 2K, XP.

ConfiLoad

The ConfiLoad S1751/00 is a software for downloading of a reader application for storage in EEPROM. Runs under Windows 9X, ME, NT, 2K, XP.

ConfiTalk Commander

The ConfiTalk Commander S1755/00 is a tool for low level interaction with TagMaster readers using the ConfiTalk protocol. It is a training tool for for system developers and application programmers. ConfiTalk Commander comes on CD-ROM including a User's Manual. Runs under Windows 9X, ME, NT, 2K, XP.

S1500 Demo Application

The S1500 Demo Application 510286 is a source code framework for an S1500 reader application. It is a template for writing customised reader applications. You can easily add or modify the code for rapid development. After compilation it can be used in the S1500.

NOTE

ConfiLib also include tools for application development under DOS and Win3.X.

REQUIREMENTS

Windows 9X, ME, NT, 2K, XP applications development:

- Microsoft Visual C++, Version 4.0 or later. 32 bit C/C++ compiler.
- Microsoft Visual Basic 5.0 or higher.
- Borland Delphi 5.0 or higher.

MISCELLANEOUS

Reader applications development

- A PROM programmer is recommended.
Prom type: AM29F010-120J
Socket type: PLCC32
File format: Motorola
- EEPROM Extraction tool is recommended.
Article no. 741067

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