

4.1 SFM Evaluation Kit

- **Evaluation Kit**

- Evaluation board equipped with 3 buttons of user enrollment, identification and deletion
- Enables basic function testing on site. It also offers RS232 port for direct PC connection.
- **Components : SFM Module and Sensor, Evaluation Board, SDK, technical documents, etc.**

- **Demo Program**

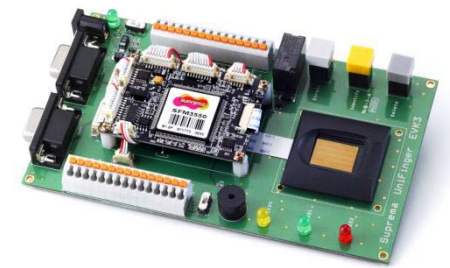
- UniFinger Command Line Tool is an application for testing UniFinger SFM series modules.
- You can try every command defined in the Packet Protocol Manual
- View the data exchanged between the host and module.

- **SDK (Software Development Kit)**

- APIs for interfacing with SFM modules.
- By using the SDK, developers could write Win32 applications quickly without knowing the minute details of Packet Protocol.

- **Protocols**

- Packet protocol to control SFM module and transfer data from/to User application.
- Simple structure, easy to use, well-described manual.



SFM3500 Series EVK



SFM4000 Series EVK

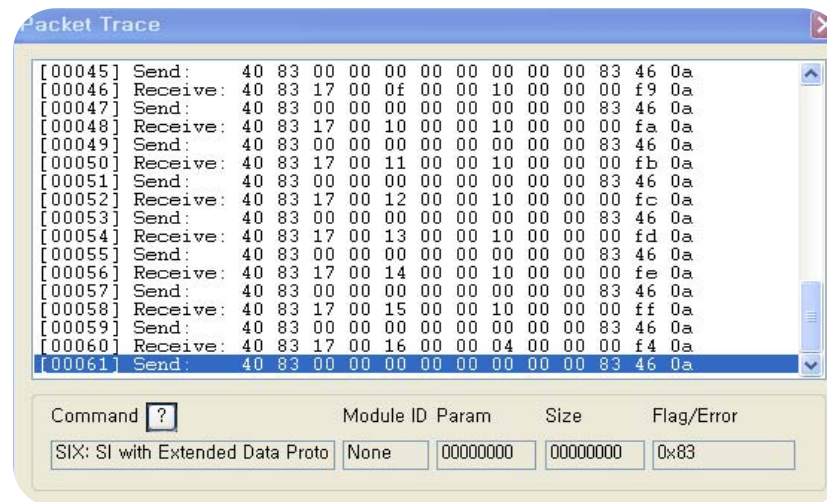


SFM3000 / 5000 Series EVK

4.2 Demo Program

UniFinger UI

It is a full-featured application by which users can test all the core functionalities of SFM modules; implemented using the SFM SDK and full source codes are available for SDK users.



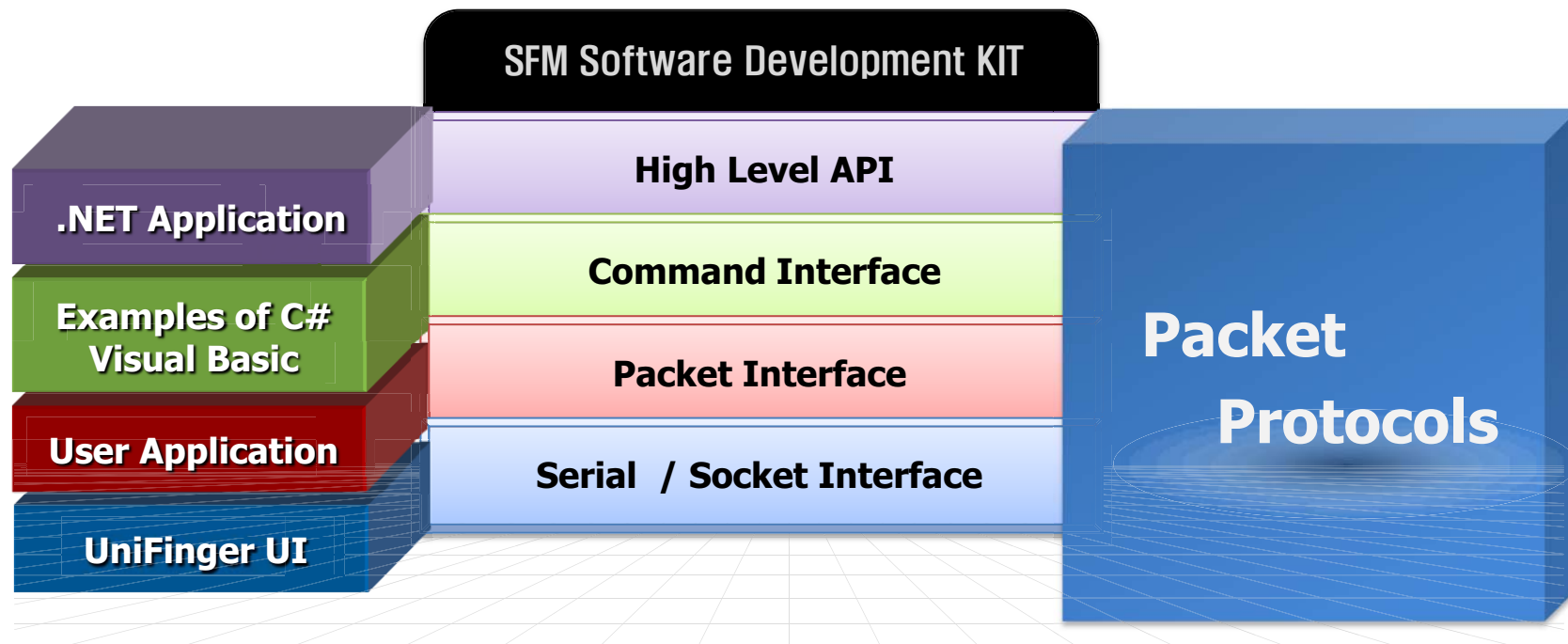
- Source code of Unifinger UI is provided as reference code for the application development on Windows OS.
- All essential functions are implemented in UniFinger UI, which enables all function testing and settings using it.



4.3 S/W Development Kit

SDK : a collection of APIs for interfacing with SFM Modules.

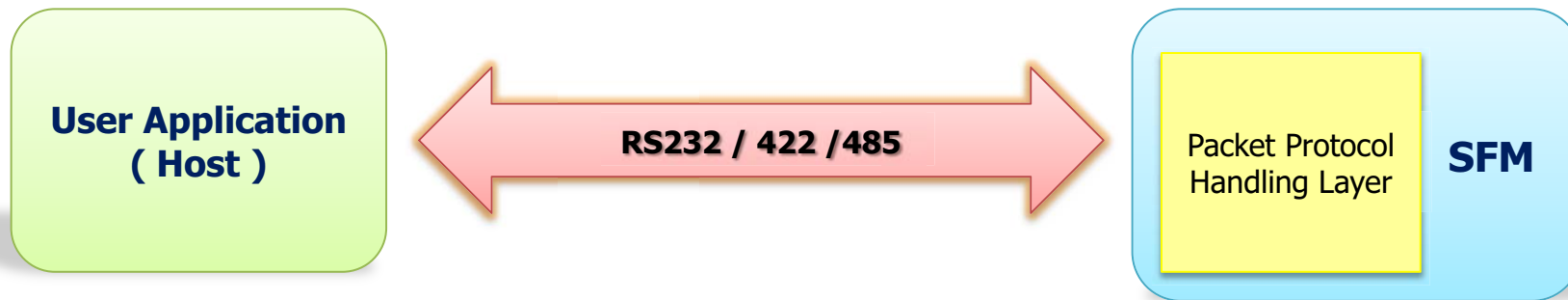
- Simple wrapper functions for Packet Protocol + High level APIs
[ex. Template DB management, Image manipulation, etc.]
- By using the SDK, developers could write Win32 applications quickly without knowing the minute details of Packet Protocol



4.4 SFM Protocols

SFM Protocols

- Packet protocol to control SFM module and transfer data from/to User application
- Simple structure, easy to use, well-described manual
- Support multiple module connection (Network mode , RS422/485)



Packet structure

Single mode (13 bytes)	Start Code	Command	Parameter	Size	Flag/Error	Checksum	End Code
	1 byte	1 byte	4 byte	4 byte	1 byte	1 byte	1 byte

Network mode (15 bytes)	Start Code	Terminal ID	Command	Parameter	Size	Flag/Error	Checksum	End Code
	1 byte	2 byte	1 byte	4 byte	4 byte	1 byte	1 byte	1 byte