

# ZKTeco Fingerprint Scanner and Module SDK Selection Guide

ZKTeco offers variety of fingerprint scanner and module SDK to suit the different business needs requirements.

We believe a clear function comparison guide would be a good helper of all of our customers.

Here is the SDK selection guide to help you sort out the similarities and differences among all ZKTeco fingerprint developing SDK.

|   | X86/64 PC Hosting  |  | ARM V7/V8 Android Hosting  | Embedded Module  | ZKBioOnlineSDK   |  |
|---|--|--|--|--|--|--|
| SDK Name  | ZKFingerSDK 5.3  | ZKFingerSDK 5.3_ISO  | ZKFingerSDK 5.3 Android  | ZKFingerModule SDK   | ZKBioOnlineSDK Browser Client  | ZKBioOnline SDK Server   |
| Compatible Devices  | SLK20R/ZK9500<br>ZK4500/ZK7500/ZK8500  | SLK20R/ZK9500<br>ZK4500/ZK7500/ZK8500  | SLK20R/SLK20M<br>ZK9500/Bio30M   | SLK20M/Bio30M  | SLK20R/ZK9500<br>ZK4500/ZK7500/ZK8500  |  |
| Functionality   | Initial/Open/Close device  | Initial/Open/Close device  | Initial/Open/Close device  | Initial/Open/Close device  |  |  |
|   | Set/Get parameter<br>parameter:SN. ,DPI, image size.   | Set/Get parameter<br>parameter:SN. ,DPI, image size.   |  | Set/Get parameter<br>parameter: firmware version,<br>time,template capacity,<br>algorithm version  |  |  |
|   | Get Image  | Get Image  | Get Image  | Get Image  | http/https get:image   |  |
|   | Generate ZKTeco V10.0 Templates  | Generate ISO 19794-2 ANSI378 Template  | Generate ZKTeco V10.0 Templates  | Generate ZKTeco V10.0 Templates  | http/https get:template  |  |
|   |  |  |  | Generate ISO19794-2/ANSI378 Template   |  |  |
|   | Initial/Free algorithm   | Initial/Free algorithm   | Initial/Free algorithm   | Initial/Free algorithm   |  |  |
|   | Add/Delete template in hosting memory  | Add/Delete template in hosting memory  | Add/Delete template in hosting memory  |  |  |  |
|   | Finger template identification in hosting memory   | Finger template identification in hosting memory   | Finger template identification in hosting memory   | Finger template identification in embedded memory  |  |  |
|   | Finger template verification in hosting memory   | Finger template verification in hosting memory   | Finger template verification in hosting memory   | Finger template verification in hosting memory   |  | ZKMatch: 1:1 verification  |
|   | Finger template merging  | Finger template merging  | Finger template merging  |  |  |  |
|   | BMP/JPG image extract to template  | BMP/JPG image extract to template  |  | Enroll by image ; identify by image<br>image only support: 8Bit R AW(120KB)  |  |  |
|   | Data format transfer[Base64]   | Data format transfer[Base64]   |  |  |  |  |
|   | Storage image in hosting, need to design   | Storage image in hosting, need to design   | Storage image in hosting, need to design   |  |  |  |
|   | Storage templates in hosting, need to design   | Storage templates in hosting, need to design   | Storage templates in hosting, need to design   | Storage templates in embedded flash  |  |  |
| Compatible Devices, Hosting Hardware and Operation System | Hosting Hardware:<br>Intel X86/64 Based PC:<br><br>Operation System:<br>Windows XP SP3/Vista/7/8/8.1/10, Windows Server 2008/2012 (32/64 bits)<br><br>Devices Compatible:<br>SLK20R/ZK9500<br>ZK4500/ZK7500/ZK8500 | Hosting Hardware:<br>Intel X86/64 Based PC:<br><br>Operation System:<br>Windows XP SP3/Vista/7/8/8.1/10, Windows Server 2008/2012 (32/64 bits)<br><br>Devices Compatible:<br>SLK20R/ZK9500<br>ZK4500/ZK7500/ZK8500 | Hosting Hardware:<br>ARM V7/V8<br><br>Operation System:<br>Android 4.0~6.0<br><br>Devices Compatible:<br>SLK20M/Bio30M | Hosting Hardware:<br>TTL RS232/USB Hosting Device<br>ARM V7/V8,MCU,X86/X64-CPU, etc.<br><br>Hosting Operation System:<br>Linux Kernel 2.6~3.0,RTOS, Windows,etc.<br><br>Devices Compatible:<br>SLK20M/Bio30M | Hosting Hardware:<br>Intel X86/64 Based PC:<br><br>Operation System:<br>Windows XP SP3/Vista/7/8/8.1/10, Windows Server 2008/2012 (32/64 bits)<br><br>Devices Compatible:<br>SLK20R/ZK9500<br>ZK4500/ZK7500/ZK8500 | Hosting Hardware:<br>Intel X86/X64 Based PC:<br><br>Operation System:<br>Windows XP SP3/Visata7/8/8.1/10, Windows Server 2008/2012 (32/64 bits)<br>Linux Kernel 2.6~4.10 |
|   | Hosting Hardware:<br>Intel X86/64 Based PC:<br><br>Operation System:<br>Linux Kernel 2.6~4.10<br>Ubuntu and Linux/GNU system;<br><br>Device Compatible:<br>SLK20R/ZK9500   | Hosting Hardware:<br>Intel X86/64 Based PC:<br><br>Operation System:<br>Linux Kernel 2.6~4.10<br>Ubuntu and Linux/GNU system;<br><br>Device Compatible:<br>SLK20R/ZK9500   |  |  |  |  |
| Browser Support   | None   | None   | None   | None   | Internet Explorer 11+/<br>Firefox 27+/Chrome 33+   |  |
| SDK Demo Language   | ActiveX/C/C#/Java  | ActiveX/C/C#/Java  | Java   | C/TTL Command  | http/https get-post  |  |
| Charge  | No   | Yes  | No   | No   | Yes  |  |