

## Comparison Chart : SFM3000 series vs. SFM3500 series

|                          | SFM3000 series   | SFM3500 series   | Comments   |
|--------------------------|--|--|--|
| CPU                      | 400 MHz DSP  | 400 MHz DSP  | Same CPU and performance<br>Same fingerprint recognition algorithm                             |
| EER (Equal error rate)   | < 0.1%   | < 0.1%   |  |
| Enrollment time          | < 550 ~ 850 msec   | < 550 ~ 850 msec   |  |
| 1:1 Verification time    | < 550 ~ 850 msec   | < 550 ~ 850 msec   |  |
| 1:N Identification time* | < 680 ~ 990 msec   | < 680 ~ 990 msec   |  |
| Template size            | 384 bytes (reducible to 256 bytes)   | 384 bytes (reducible to 256 bytes)   | SFM3500 has a bigger template capacity by default  |
| Flash memory             | 1MB flash (4MB optional)   | 4MB  |  |
| Template capacity        | 1900 at 1MB flash (9500 at 4MB flash)  | 9000 at 4MB flash  | SFM3500 provides various external interfaces<br>while SFM3000 supports a simple UART interface |
| Host. communication      | 1 async serial (3.3V CMOS level)   | 1 RS232 or RS422/485   |  |
| Aux. communication       | NA   | 1 RS232 or TTL level   |  |
| Wiegand interface        | NA   | Wiegand input 1 port & output 1 port   |  |
| Programmable I/O         | 8 ports (# of in/out configurable)   | 3 LED / 3 Input / 3 Output   | SFM3500 provides event logging function  |
| Log capacity             | NA   | 12,800 events  |  |
| Supply voltage           | 3.3 Vdc (regulated)  | 5 Vdc (regulated)  | SFM3000 runs at 3.3 Vdc while SFM3500 needs 5 Vdc  |
| Main board size          | 55 x 40 x 8 mm (L x W x H)   | 63 x 43 x 10 mm (L x W x H)  | SFM3500 is a little bigger than SFM3000  |
| Summary                  | <ul style="list-style-type: none"> <li>- Less power consumption</li> <li>- Cost effective module good for general fingerprint applications</li> <li>- Usually works with host micom board</li> </ul> | <ul style="list-style-type: none"> <li>- Bigger template capacity and log management functions</li> <li>- High-end module good for standalone access control applications</li> </ul> |  |

\* average 1:1000 genuine identification time including feature extraction time