

# SMUFS Combo

## Compact ID FAP30

### Fingerprint Scanner with

### Smart Card Reader



SMUFS Combo offers the largest scanning area (20.32 x 25.4 mm) using the Optical TFT FAP30 FBI certified scanner, which makes it suitable for performing tasks under direct sunlight, unaffected by rough, dry, dirty, and large fingers. In the combination with the Scanner is an FCC & CE certified Smart Card reader that supports a variety of cards and formats. This Combo apparatus is supported by the SMUFS SDK operating on both Linux and Windows and offering a vast option for ID management such as match on device, match locally, match remotely, 1:1, 1: F, and 1: N. This maintenance-free Combo device is perfect for Identity management tasks that require both a Smart Card and Biometrics, such as National ID, Elections, Banking and Payment services, Health Care services, Border Control and Law enforcement.

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SMUFS Combo	Functionality	Technology	Customer Benefit
Interface	USB	1.1Full, 2.0 Hi-Speed	
Fingerprint Reader Specifications	IMAGE TYPE	RAW, JPEG2000, WSQ, BMP, PNG	<ul style="list-style-type: none"> <li>• Single finger scan</li> <li>• No membranes to replace</li> <li>• <b>OPTICAL –LES</b></li> <li>• Ideal for use with mobile computers</li> <li>• Easy to integrate</li> <li>• Requires no cleaning for latent fingerprints</li> <li>• Excellent with dry and dirty fingers</li> <li>• Durable and shock resistant</li> <li>• Anti-Reflection coating – Operates in direct sunlight</li> <li>• Image capture 0.2 Sec</li> </ul>
	IMAGE SIZE / TYPE	256 grayscale dynamic range 500 PPI 400 x 500 Pixels / <b>TFT FAP30</b> 20.32 x 25.4 mm Sensing Area	
	SENSOR SURFACE RESISTANCE	Ammonia, IPA, Methanol, Soaps/Detergents, Salt Water	
	SENSOR SURFACE DURABILITY	MIL-C-675c 4.5010, MIL-STD-810F	
	INGRESS PROTECTION	IP54 Case Bezel to Film	
	AIR DISCHARGE / CONTACT DISCHARGE	In compliance with IEC 61000-4-2	
	Card Reader Specifications	MODEL / TYPE	
SUPPORTED CARD TYPES		ISO 7816 Parts 1-3, Class A, B, C CCID compliant	
INTERFACE SPEED		12 Mbps	
PROTOCOLS		T=0 and T=1	
MAX CLOCK FREQUENCY		4.80 MHz	
MAX BAUD RATE		600Kbps @FI/DI-97	
SUPPORTED CARD TYPES		5V, 3V and 1.8V smart cards, ISO 7816 Class A, B and C	
STATUS INDICATOR		LED's	Remote Wake-up for card insertion/removal Short circuit protection on smart card
POWER CONSUMPTION	DC Current 5V: Standby <50mA / Full Scanning <115mA / Dual action <300mA		
OS support	WINDOWS, Linux	PC/SC, CT-API (through wrapper on top of PC/SC)	
Certification	<b>FCC-CE CONFORMANCE</b> FCC Part 15 (per ANSI C62.4:2003) Class A, CSA ICES-003 Class A, CE Emissions: EN 55022:2006 Class A, CE Immunity EN 55024:1998/A1:2001/A2:2003, IEC 61000-4-2	<b>FBI Certification</b> PIV 071006, FIPS 201, FAP 30 <b>Certified to Mobile ID Requirements</b>	FCC Class B, CE, EMV 2008 Level 1, WHQL, UL 60950, USB IF, UL92, GSA, ANZ, RoHS, ICES-003 Issue 4, VCCI
Physical	Dimensions / Weight	80.0 x 100.0 x 45.5 mm	approx. 200 g
	Operating Temperature/Humidity	0 to +50°C	10% to 90%RH

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