



Projeto UE2020

ALPHATECH
CROSSMATCH



Quem é Alphatech

Distribuidor autorizado de semicondutores e módulos eletrônicos

Mais de 20 anos de atuação no mercado

Equipe técnica altamente qualificada e capacitada

Distribuidor autorizado da Crossmatch/DigitalPersona

Quem é Crossmatch

Líder mundial em sensores de impressão digital

- Inclui as marcas Digital Persona e Eikon
- Parte do grupo HID Global desde Nov/2018

Ampla linha de leitores

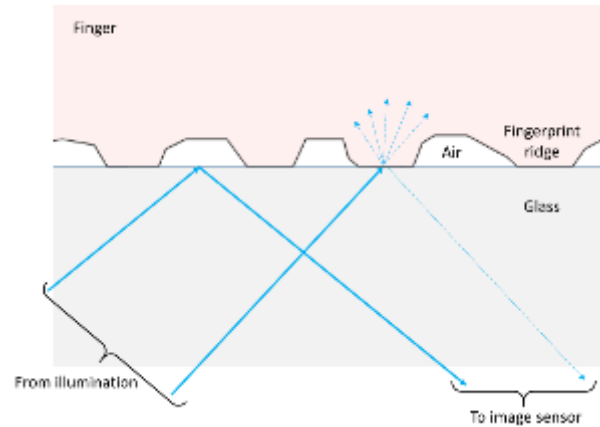
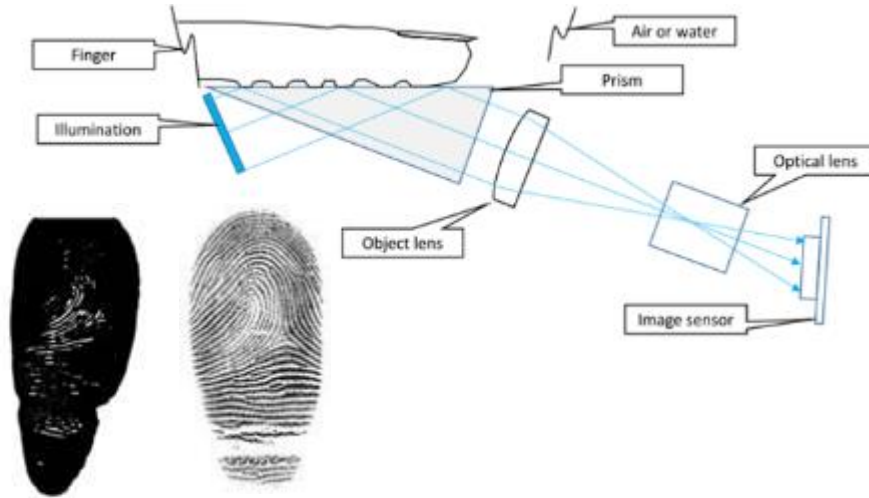
- <FAP10 até FAP 60

Marca reconhecida

- TSE (projeto Kitbio 1 – 2007)
- DPF (cadastramento do Passaporte 2005 – 2011)
- Fronteiras americanas
- McDonald's
- Planos de Saúde

Technology Anchors

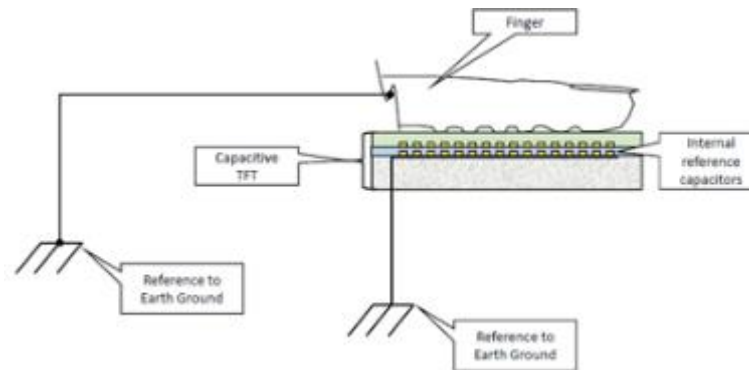
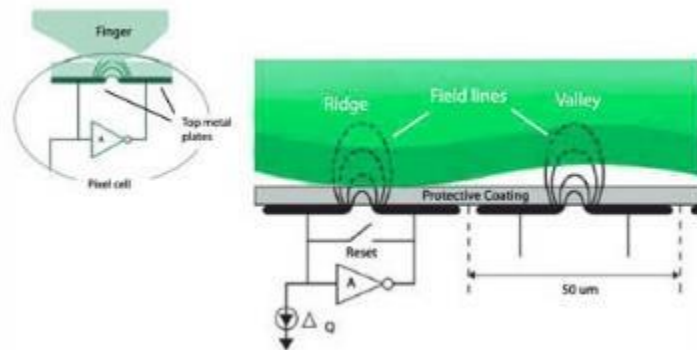
OPTICAL



Optical Advantages:

- Wider range (wet to dry) (especially with silicone membrane)
- Durable
- Less expensive to build

CAPACITIVE



Capacitive Advantages:

- Smaller footprint
- Increased mobility
- Better in direct sunlight
- Low power

Single Finger Readers and Modules (FAP <10 to FAP 30)

EikonTouch and TouchChip Silicon Readers and Modules:

TCESC4K Module



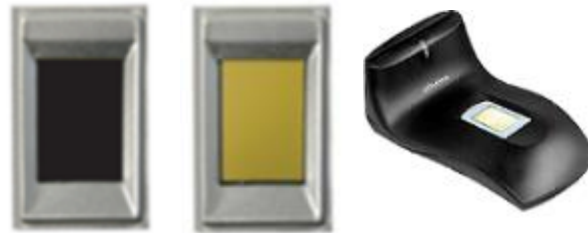
Swipe Sensor: Verification

Key Value:

Smallest possible form factor

TouchChip

TCS1 Modules and Combo
Reader



FAP 10: Verification

Key Value:

Steel coat – 4 million touches
Gold coat - PIV Certified – 2 million
touches

EikonTouch

510 and 710 Readers



FAP 10: Verification

Key Value:

510: India UID STQC Certified – 4
million touches
710: PIV Certified – 2 million touches

Single Finger Readers and Modules (FAP <10 to FAP 30)

U.are.U Optical Readers and Modules:

U.are.U 4500 Reader and Module



Sub FAP 10: Verification

Key Value:

Low cost, fast verification (< 1 second)

U.are.U 5200 Module



FAP 20: Identification, Verification

Key Value:

Low cost, PIV Certified Module

U.are.U 5300 Reader and Module



FAP 30: Identification, Enrollment

Key Value:

PIV Certified, large, usable platen

Market for Single Finger Readers

Market leader in optical and silicon sensors, with millions of units deployed



KRONOS



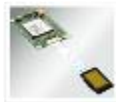
bioscript



L1 IDENTITY SOLUTIONS



Honeywell



SUPREMA



USB Data Keys & Hard Drives



USB Readers



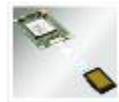
CRAFTSMAN



COGENT SYSTEMS



PRECISE BIOMETRICS



VISIONTEK



VeriFone



DATA STRIP

VISION TEKLOGIX

TAGTAG



FAP Sizes and Use Cases: offer the broadest set of tools

PIV	< FAP 10	Consumer Login	Verification/ Authentication
	FAP 10	Commercial Verification (1 to 1)	
PIV	FAP 20	Cooperative Identification (1 to n)	Identification & Verification
	FAP 30	Uncooperative Identification (1 to n)	
	FAP 40	2 Finger Flat	
Appendix F	FAP 45	Mobile or Low Cost Enrollment	Enrollment & Identification & Verification
	FAP 50	Small 4 Finger	
	FAP 60	Ten-print Enrollment Standard Type 4 or 14	
	PALM	Ten-print and Palm Standard	

FAP = Fingerprint Acquisition Profile

- Size of platen and # of fingers

Sub FAP 10

- One to one matching only

PIV = Personal Identity Verification

- One to one/many matching

Appendix F = Enrollment Standards

- One to many matching

Espessura da Resina de Proteção

- Padrões do NIST não especificam espessura
- Para materiais mais duros, mais espesso significa mais inseguro
- Materiais mas rígidos / duros e finos protegem melhor

Proteção das chaves contra intrusão

- Padrões do mercado financeiro é ter bateria que protege contra invasão
 - Bateria garante que a intrusão é detectada mesmo quando a urna está totalmente desligada
 - Bateria de 10 anos de duração tem custo baixo
- Deve zerar/apagar/destruir as chaves criptográficas sempre que detectar:
 - Tentativa de intrusão
 - Variação de Voltagem
 - Variação de temperatura

Obrigado!

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