

Transponder Matrix

Overview of technologies supported by ELATEC RFID readers and modules

Standard reader configuration supports over 60 RFID technologies

ELATEC functional extensions **Further RFID technologies** Apple NFC support* V option** P option **I** option supports custom private keys for G-Prox, HID Prox HID iCLASS and other Apple in combination with the technologies, Indala, ioProx, technologies A option Nexwatch A option access to passes stored in Apple mobile devices via **NFC**

Unless otherwise agreed with ELATEC, each ELATEC RFID reader/module is delivered with a standard firmware version that might be older than the latest firmware developed by ELATEC. The standard firmware version of an ELATEC reader/module can be changed using the ELATEC AppBlaster tool. Alternatively, you can also download or request a specific firmware version on the ELATEC website.

This transponder matrix gives an overview of all RFID technologies supported by ELATEC RFID readers and modules running with the **firmware version 4.64**.































^{*}For Apple licensees only and eligible implementers. Please contact ELATEC for details.

^{**}The V option is only available in combination with the A option.



Overview of ELATEC product families of RFID readers/modules

Devices with NXP frontend

TWN4 MultiTech 2 series	LF	HF / NFC	BLE	SAM slot(s)	HID iCLASS SE processor**	Frontend
TWN4 MultiTech 2	•	•	•	1 to 2***	Plugged in	PN5180
TWN4 MultiTech 2 HF		•		1	Plugged in	PN5180
TWN4 MultiTech 2 HF PCSC		•		1	Plugged in	PN5180
TWN4 MultiTech 2 LF HF	•	•		2	Plugged in	PN5180
TWN4 MultiTech 2 LF*	•			1	n/a	PN5180
TWN4 MultiTech 2 M	•	•	•	1 to 2***	Plugged in	PN5180
TWN4 MultiTech 2 M HF		•		1	Plugged in	PN5180
TWN4 MultiTech 2 M LF HF	•	•		2	Plugged in	PN5180
TWN4 MultiTech 2 M LF*	•			1	n/a	PN5180
TWN4 MultiTech 3 series						
TWN4 MultiTech 3 M	•	•	•	1	Plugged in	PN5180
TWN4 MultiTech 3 M LF HF	•	•		1	Plugged in	PN5180
TWN4 MultiTech 3 M LF*	•			1	n/a	PN5180
TWN4 MultiTech Mini series						
TWN4 MultiTech HF Mini		•		0	Plugged in	PN512
TWN4 MultiTech Nano series						
TWN4 MultiTech Nano M	•	•		0	Plugged in	PN5180
TWN4 MultiTech series						
TWN4 MultiTech*	•	•		2	Plugged in	PN512
TWN4 MultiTech M*	•	•		2	Plugged in	PN512
TWN4 MultiTech SmartCard series						
TWN4 MultiTech SmartCard*	•	•		2	Plugged in	PN512
TWN4 Palon Compact series						
TWN4 Palon Compact M	•	•	•	1	Plugged in	PN5180
TWN4 Palon Compact M Light	•	•		1	Plugged in	PN5180
TWN4 Palon Compact Panel	•	•	•	1	Plugged in	PN5180
TWN4 Palon Compact Panel Light	•	•		1	Plugged in	PN5180
TWN4 Palon Compact Wall	•	•	•	1	Plugged in	PN5180
TWN4 Palon Compact Wall Light	•	•		1	Plugged in	PN5180
TWN4 Palon Square series						
TWN4 Palon Square M LF HF	•	•		2	Plugged in	PN5180
TWN4 Slim series						
TWN4 Slim	•	•	•	1	Embedded or plugged in	PN5180
TWN4 Slim JP		•	•	1		PN5180
TWN4 USB Front Reader series						
TWN4 USB Front Reader	•	•	•	1	Plugged in	PN5180

^{*}EOL: These products have been discontinued. Please refer to the corresponding Product Discontinuation Notifications (PDN) at www.elatec-rfid.com/int/elatec-end-of-lifecycle-products for more information.

^{**}Optional (relevant for product configuration with PI options only).

^{***}Devices equipped with a BLE module of 1st generation have two free SAM slots, whereas devices equipped with a BLE module of 2st generation only have one free SAM slot.



Devices with LEGIC frontend

TWN4 MultiTech 2 LEGIC series	LF	HF / NFC	BLE	SAM slot(s)	HID iCLASS SE processor**	Frontend
TWN4 MultiTech 2 LEGIC	•	•	•	1	Plugged in	SM-4200***
TWN4 MultiTech 2 LEGIC LF HF	•	•		2	Plugged in	SM-4200***
TWN4 MultiTech 2 LEGIC M	•	•	•	1	Plugged in	SM-4200***
TWN4 MultiTech 2 LEGIC M LF HF	•	•		2	Plugged in	SM-4200***
TWN4 MultiTech 3 LEGIC series						
TWN4 MultiTech 3 LEGIC M	•	•	•	1	n/a	SM-4200
TWN4 MultiTech 3 LEGIC M LF HF	•	•		1	n/a	SM-4200
TWN4 MultiTech LEGIC series						
TWN4 MultiTech LEGIC*	•	•		2	n/a	SM-4200***
TWN4 MultiTech LEGIC M*	•	•		2	n/a	SM-4200***
TWN4 MultiTech Nano LEGIC series						
TWN4 MultiTech Nano LEGIC 42 M	•	•		0	n/a	SM-4200
TWN4 MultiTech Nano LEGIC 63 M	•	•	•	0	n/a	SM-6300
TWN4 MultiTech SmartCard LEGIC						
series						
TWN4 MultiTech SmartCard LEGIC 42*	•	•		2	n/a	SM-4200
TWN4 MultiTech SmartCard LEGIC M*	•	•		2	n/a	SM-4200
TWN4 Palon Compact LEGIC series						
TWN4 Palon Compact LEGIC M	•	•	•	1	n/a	SM-4200
TWN4 Palon Compact LEGIC M Light	•	•		1	n/a	SM-4200
TWN4 Palon Compact LEGIC Panel	•	•	•	1	n/a	SM-4200
TWN4 Palon Compact LEGIC Panel Light	•	•		1	n/a	SM-4200
TWN4 Palon Compact LEGIC Wall	•	•	•	1	n/a	SM-4200
TWN4 Palon Compact LEGIC Wall Light	•	•		1	n/a	SM-4200
TWN4 Palon One LEGIC series						
TWN4 Palon One LEGIC M LF HF*	•	•		1	n/a	SM-4200
TWN4 Slim LEGIC series						
TWN4 Slim LEGIC	•	•	•	1	n/a	SM-6300
TWN4 USB Front Reader LEGIC series						
TWN4 USB Front Reader LEGIC	•	•	•	1	n/a	SM-4200

^{*}EOL: These products have been discontinued. Please refer to the corresponding Product Discontinuation Notifications (PDN) at www.elatec-rfid.com/int/elatec-end-of-lifecycle-products for more information.

^{**}Optional (relevant for product configuration with PI options only).

^{***}Product derivates with LEGIC SM-4500 frontend are available on request.



ELATEC multi-frequency RFID readers/modules (LF/HF)

All multi-frequency readers/modules of the following series:

Devices with NXP frontend

TWN4 MultiTech, TWN4 MultiTech 2, TWN4 MultiTech 3, TWN4 MultiTech Nano, TWN4

All multi-frequency readers/modules of the following series: **Devices with LEGIC frontend**

TWN4 MultiTech 2 LEGIC, TWN4 MultiTech 3 LEGIC, TWN4 MultiTech LEGIC, TWN4 MultiTech Nano LEGIC, TWN4 MultiTech SmartCard LEGIC, TWN4 Palon Compact LEGIC

			Palon Compact, TWN4 Palon Sq		MultiTech Nano LEGIC, TWN	N4 MultiTech SmartCard LEGIC, 1	WN4 Palon Compact LEGIC,
			Front Reader		TWN4 Palon One LEG	SIC, TWN4 Slim LEGIC, TWN4 US	B Front Reader LEGIC
		standard	P option	PI options ¹⁾	standard	P option	PI options ¹⁾⁴⁾
	HID MIFARE Classic SE			•			•
	HID MIFARE DESFire SE			•			•
	HID SEOS			•			•
	LEGIC Advant	UID only	UID only	UID only	•	•	•
	NTAG2xx	•	•	•	•	•	•
	NXP MIFARE Classic	•	•	•	•	•	•
		r/w enhanced security	r/w enhanced security	r/w enhanced security	r/w enhanced security	r/w enhanced security	r/w enhanced security
	NXP MIFARE Classic EV1	features on request	features on request	features on request	features on request	features on request	features on request
	NXP MIFARE DESFire EV1	•	•	•	•	•	•
		Supported as part of the	Supported as part of the	Supported as part of the	Supported as part of the	Supported as part of the	Supported as part of the
	NXP MIFARE DESFire EV2/EV3	EV1 downward compatibility	EV1 downward compatibility	EV1 downward compatibility	EV1 downward compatibility	EV1 downward compatibility	EV1 downward compatibility
		Supported as part of the	Supported as part of the	Supported as part of the	Supported as part of the	Supported as part of the	Supported as part of the
3A	NXP MIFARE DESFire Light	EV1 downward compatibility	EV1 downward compatibility	EV1 downward compatibility	EV1 downward compatibility	EV1 downward compatibility	EV1 downward compatibility
4	NXP MIFARE Mini		21 acminara companionity	211 dominard companions	211 dominard companions	211 dominard companions	
SO 14443A	NXP MIFARE Plus S	•			•	•	•
<u>S</u>	NXP MIFARE Plus X		<u> </u>	<u> </u>	<u> </u>	<u> </u>	
	NAF WIII AINE FIUS A	ulu in transport data	atu in transport data	ativi in transportate	alis in transport data	ativi in transportant data	ulu in transport data
	NXP MIFARE Smart MX	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data
	NVD MICADE I libralia hi	exchange mode	exchange mode	exchange mode	exchange mode	exchange mode	exchange mode
	NXP MIFARE Ultralight	<u> </u>	•	•	•	<u> </u>	•
	NXP MIFARE Ultralight C	•	•	•	•	•	•
	NXP MIFARE Ultralight EV1	r/w enhanced security	r/w enhanced security	r/w enhanced security	r/w enhanced security	r/w enhanced security	r/w enhanced security
		features on request	features on request	features on request	features on request	features on request	features on request
	SLE44R35	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data
		exchange mode	exchange mode	exchange mode	exchange mode	exchange mode	exchange mode
	SLE66Rxx (my d-move)	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data
		exchange mode	exchange mode	exchange mode	exchange mode	exchange mode	exchange mode
	Topaz	•	•	•			•
	Calypso	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data
Œ	Culypoo	exchange mode	exchange mode	exchange mode	exchange mode	exchange mode	exchange mode
Ŧ	Calypso Innovatron protocol	r/w in transparent data	r/w in transparent data	r/w in transparent data			r/w in transparent data
13.56 MHz (HF) 143B	Calypso illilovation protocol	exchange mode	exchange mode	exchange mode			exchange mode
. B	CEPAS	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data
54	CLFAS	exchange mode	exchange mode	exchange mode	exchange mode	exchange mode	exchange mode
13.56 SO 14443B	CTS	•	•	•			•
<u>S</u>	Pico Pass	UID only	UID only	UID only	UID only	UID only	UID only
	SRI4K	• •	•	•	· ·	· ·	•
	SRI512	•	•	•			•
	SRIX4K	•	•	•			•
	SRT512	•	•	•			•
		r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data
	EM4x33	exchange mode	exchange mode	exchange mode	exchange mode	exchange mode	exchange mode
		r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data
	EM4x35	exchange mode	exchange mode	exchange mode	exchange mode	exchange mode	exchange mode
	HID iCLASS Legacy/SR/SE	oxonaligo modo	oxonange mode	excitatige mode	oxonange mode	Oxonange mode	exchange mode
3	ICODE SLI						
SO 15693	LEGIC Advant	UID only	UID only	UID only	•	•	•
0.11		OID only	OID only	OID only	•		
<u> </u>	M24LR16/64	•	•	•	•	•	•
	MB89R118/119	2)	2)	2)			•
	Pico Pass	UID only	UID only	UID only	UID only	UID only	UID only
	SRF55Vxx (my d-vicinity)	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data	r/w in transparent data
		exchange mode	exchange mode	exchange mode	exchange mode	exchange mode	exchange mode
	Tag-it	•	•	•	•	•	•
	NFC Forum Tag type 1	•	•	•			•
5 /	NFC Forum Tag type 2	•	•	•	•	•	•
300	NFC Forum Tag type 3	•	•	•	•	•	•
ISO 18092 /	NFC Forum Tag type 4	•	•	•	•	•	•
	NFC Forum Tag type 5	•	•	•	•	•	•
	Sony FeliCa	UID + r/w public area	UID + r/w public area	UID + r/w public area	UID + r/w public area	UID + r/w public area	UID + r/w public area
	•	AV2 only, requires one free	AV2 only, requires one free	AV2 only, requires one free	AV2 only, requires one free	AV2 only, requires one free	AV2 only, requires one free
	LEAF	SAM slot for MIFARE SAM	SAM slot for MIFARE SAM	SAM slot for MIFARE SAM	SAM slot for MIFARE SAM	SAM slot for MIFARE SAM	SAM slot for MIFARE SAM
		AV2 card	AV2 card	AV2 card ³⁾	AV2 card	AV2 card	AV2 card ³⁾
_	LEGIC Prime				•	•	•
	0.00						

¹⁾Requires one free SAM slot for HID iCLASS SE processor.

²⁾Not supported by TWN4 MultiTech, TWN4 MultiTech SmartCard and TWN4 USB Front Reader series.

³⁾Some ELATEC readers/modules have one free SAM slot only and cannot support LEAF and the I option at the same time. Refer to the respective product data sheets or to the overview above for more information.

⁴⁾Only available with readers/modules of the TWN4 MultiTech 2 LEGIC series.



ELATEC multi-frequency RFID readers/modules (LF/HF)

All multi-frequency readers/modules of the following series: All multi-frequency readers/modules of the following series: Devices with NXP frontend Devices with LEGIC frontend TWN4 MultiTech, TWN4 MultiTech 2, TWN4 MultiTech 3, TWN4 MultiTech Nano, TWN4 MultiTech TWN4 MultiTech 2 LEGIC, TWN4 MultiTech 3 LEGIC, TWN4 MultiTech LEGIC, TWN4 MultiTech SmartCard, TWN4 Palon Compact, TWN4 Palon Square, TWN4 Slim, TWN4 USB Front Reader Nano LEGIC, TWN4 MultiTech SmartCard LEGIC, TWN4 Palon Compact LEGIC, TWN4 Palon One LEGIC, TWN4 Slim LEGIC, TWN4 USB Front Reader LEGIC standard P option PI options¹⁾ standard P option PI options1)2) AWID Hash value only Hash value only Hash value only Cardax Hash value only Hash value only Hash value only CASI-RUSCO Deister Hash value only FM4050 FM4100 EM4102 FM4150 only emulation of 4100/4102 FM4200 EM4305 EM4450 EM4550 G-Prox Hash value only Hash value only Hash value only Hash value only HID 1326 Prox II HID 1336 DuoProx II HID 1346 ProxKey III HID 1386 ISO Prox II HID 1391 Micro Prox HID Prox Without encryption Without encryption Without encryption HITAG 1/2/S Without encryption Without encryption Without encryption ICT IDTECK Indala ioProx ISONAS Keri Miro Hash value only Nedap Hash value only Nexwatch Pyramid 0.5 T5557 T5567 T5577 TITAN (EM4050) UltraProx UNIQUE ZODIAC

¹⁾Requires one free SAM slot for HID iCLASS SE processor

²⁾Only available with readers/modules of the TWN4 MultiTech 2 LEGIC series.

^{**125} kHz technologies require a local test and import license from the Russian Ministry of Trade and Industry (MINPROMTORC). This license has to be in place before ELATEC can accept any order to be shipped to Russia.



ELATEC single-frequency RFID readers/modules (HF)

		TVN4 MultiTe TWN4 Multi TWN4 Multi TWN4	tiTech 2 HF sch 2 HF PCSC Tech 2 M HF Tech HF Mini Slim JP		
		standard	I option ¹⁾		
	HID MIFARE Classic SE		•		
	HID MIFARE DESFire SE		•		
	HID SEOS		•		
	LEGIC Advant	UID only	UID only		
	NTAG2xx	•	•		
	NXP MIFARE Classic	•	•		
	NXP MIFARE Classic EV1	r/w enhanced security features on request	r/w enhanced security features on request		
	NXP MIFARE DESFire EV1	•	•		
≰	NXP MIFARE DESFire EV2/EV3	supported as part of the EV1 downward compatibility	supported as part of the EV1 downward compatibility		
SO 14443A	NXP MIFARE DESFire Light	supported as part of the EV1 downward compatibility	supported as part of the EV1 downward compatibility		
17	NXP MIFARE Mini	•	•		
<u>x</u>	NXP MIFARE Plus S	•	•		
	NXP MIFARE Plus X	•	•		
	NXP MIFARE Smart MX	r/w in transparent data exchange mode	r/w in transparent data exchange mode		
	NXP MIFARE Ultralight	•	•		
	NXP MIFARE Ultralight C	•	•		
	NXP MIFARE Ultralight EV1	r/w enhanced security features on request	r/w enhanced security features on request		
	SLE44R35	r/w in transparent data exchange mode	r/w in transparent data exchange mode		
	SLE66Rxx (my d-move)	r/w in transparent data exchange mode	r/w in transparent data exchange mode		
	Topaz	•	•		
	Calypso	r/w in transparent data exchange mode	r/w in transparent data exchange mode		
	Calypso Innovatron protocol	r/w in transparent data exchange mode	r/w in transparent data exchange mode		
	CEPAS	r/w in transparent data exchange mode	r/w in transparent data exchange mode		
SO 14443B	CTS	•	•		
4	Pico Pass	UID only	UID only		
SO	SRI4K	•	•		
	SRI512	•	•		
	SRIX4K	•	•		
	SRT512	•	•		
	EM4x33	r/w in transparent data exchange mode	r/w in transparent data exchange mode		
	EM4x35	r/w in transparent data exchange mode	r/w in transparent data exchange mode		
	HID iCLASS Legacy/SR/SE		•		
m	ICODE SLI	•	•		
ISO 15693	LEGIC Advant	UID only	UID only		
0	M24LR16/64	•	•		
<u>S</u>	MB89R118/119	2)	2)		
	Pico Pass	UID only	UID only		
	SRF55Vxx (my d-vicinity)	r/w in transparent data exchange mode	r/w in transparent data exchange mode		
	Tag-it	•	•		
	NFC Forum Tag type 1	•	•		
2.0	NFC Forum Tag type 2	•	•		
18092 / MA-340	NFC Forum Tag type 3	•	•		
18 MA	NFC Forum Tag type 4	•	•		
S 2	NFC Forum Tag type 5	•	•		
	Sony FeliCa	UID + read/write public area	UID + read/write public area		
	LEAF	AV2 only, requires one free SAM slot for MIFARE SAM AV2 card	AV2 only, requires one free SAM slot for MIFARE SAM AV2 card ³⁾		
	LEGIC Prime	A 14 11 11 11 11 11 11 11 11 11 11 11 11	At		

¹⁾Requires one free SAM slot for HID iCLASS SE processor.
2)Supported, except by TWN4 MultiTech HF Mini.
3)Some ELATEC readers/modules have one free SAM slot only and cannot support LEAF and the I option at the same time. Refer to the respective product data sheets or to the overview above for more information.



ELATEC single-frequency RFID readers/modules (LF)

		TWN4 Mult	ItiTech 2 LF iTech 2 M LF iTech 3 M LF P option		
	AWID	Stanuaru	Popuon		
	Cardax	Hash value only	Hash value only		
	CASI-RUSCO	Trasti value only	Trasti value only		
	Deister	Hash value only	Hash value only		
	EM4050	Tradit value only	Tradit value only		
	EM4100	•	•		
	EM4102		•		
	EM4150	•	•		
	EM4200	Only emulation of 4100/4102	Only emulation of 4100/4102		
	EM4305	Only emulation of 4100/4102	Only emulation of 4100/4102		
	EM4450				
	EM4550	•	• •		
	G-Prox	<u> </u>			
	HID 1326 Prox II		Hash value only		
			•		
	HID 1336 DuoProx II		•		
	HID 1346 ProxKey III HID 1386 ISO Prox II		•		
<u>-</u>			•		
*.	HID 1391 Micro Prox		•		
춫	HID Prox	Mari e	• VER • • · · · ·		
125 kHz** (LF)	HITAG 1/2/S	Without encryption	Without encryption		
-	ICT	•	•		
	IDTECK	•	•		
	Indala		•		
	ioProx		•		
	ISONAS	•	•		
	Keri	•	•		
	Miro	•	•		
	Nedap	Hash value only	Hash value only		
	Nexwatch		•		
	Pyramid	•	•		
	Q5	•	•		
	T5557	•	•		
	T5567	•	•		
	T5577	•	•		
	TITAN (EM4050)	•	•		
	UltraProx	•	•		
	UNIQUE	•	•		
	ZODIAC	•	•		

^{**125} kHz technologies require a local test and import license from the Russian Ministry of Trade and Industry (MINPROMTORC). This license has to be in place before ELATEC can accept any order to be shipped to Russia.



Apple technologies supported by ELATEC RFID readers/modules*

	Apple Value Added Services (VAS)**	Apple Access passes***
TWN4 MultiTech	•	•
TWN4 MultiTech M	•	
TWN4 MultiTech 2	•	•
TWN4 MultiTech 2 M	•	
TWN4 MultiTech 2 LF HF	•	•
TWN4 MultiTech 2 M LF HF	•	
TWN4 MultiTech 2 HF	•	
TWN4 MultiTech 2 M HF	•	
TWN4 MultiTech 3 M	•	
TWN4 MultiTech 3 M LF HF	•	
TWN4 MultiTech Nano M	•	
TWN4 Palon Compact M	•	
TWN4 Palon Compact M Light	•	
TWN4 Palon Compact Panel	•	
TWN4 Palon Compact Panel Light	•	
TWN4 Palon Compact Wall	•	
TWN4 Palon Compact Wall Light	•	
TWN4 Palon Square M LF HF	•	
TWN4 Slim	•	
TWN4 USB Front Reader	•	
TWN4 Mini EVP M HF	•	

Apple VAS and Access passes both include the Enhanced Contactless Protocol (ECP) 2.0.

Please note:

Apple VAS and Access passes can be tested on request on other ELATEC RFID readers/modules of the TWN4 family. For best convenience reasons and best performance, no other RFID technology (LF, HF) should be enabled in parallel to Apple technologies. For system integrators and PCB module design-in, Apple may require additional testing and proof that the final product meets all Apple requirements for VAS and Access passes.

^{*}For Apple licensees only and eligible implementers. Please contact ELATEC for details.

^{**}Requires the ELATEC AV options.

^{***}Requires the ELATEC A option.



Appendix

Terminology

Term	Explanation
(Apple) Access pass	Contactless NFC passes can be stored in an Apple mobile device (iOS). ELATEC uses the term "Access pass" for this type of passes. Access passes are stored in a secure environment on iOS devices. There are different storage formats of Access passes. ELATEC readers with Access pass support also use the underlying ECP 2.0 protocol. Access passes must not be confused with VAS passes.
ECP / ECP 2.0	Stands for "Enhanced Contactless Polling" protocol. ECP is a low-level contactless protocol defined by Apple, extending parts of the ISO 14443 specifications, to ensure best performance when detecting Apple mobile devices using NFC.
RFID reader/module	For ELATEC products, the term "RFID module" refers to OEM PCBs, i.e. the bare electronic board. These devices are intended to be integrated into a final (host) product by system integrators and device vendors. The term "RFID reader" is used for final devices, i.e. including a housing, connectors and / or cabling, and of course an RFID module.
Transponder	The term "transponder" is an association of " trans mitter" and "res ponder ". "RFID tag" and "RFID label" are common synonyms used for "transponder". Basically, an RFID transponder consists of a chip that contains information transmitted to an RFID reader through electromagnetic waves. A transponder can have different forms, like a card, a key fob or even a smartphone. The term "transponder" can also refer to any type of contactless-enabled smart cards.
VAS	Stands for "Value-Added Services". Apple VAS is an Apple wallet solution for many loyalty use-cases. Users can load so-called VAS passes into their wallet on their mobile devices (iOS). Most can be read visually (barcode, QR code). NFC-based VAS passes are available as well. Readers with VAS support can read these VAS passes. Technically, the ECP 2.0 protocol is used when reading VAS passes.

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DEVKIT TWN4 MULTITECH NANO LEGIC HOPK-B2AEL MIFARE 1K 13,56MHZ RFID TAG SNAP IN HOLDER, BLACK SNAP IN HOLDER, WHITE T43O-B6C0 T43O-B6C0-P T43O-B7C0-P T43O-F4C0 T43O-F6C0 T43O-F6C0-P T4BO-B7-XB T4BO-B7-XBP T4BO-B7-XBP T4BO-F7-XBPI T4BT-BR2BEL6-P T4BT-BR2BEL6-P T4BT-FB2BEL6-P T4BT-FB2BEL7-XB T4BT-FB2BEL7-XB T4BT-FB2BEL7-XBP T4BT-FB2BEL7-XBP T4BT-FB2BEL7-XBP T4DO-F-PI T4DT-FB3WEL T4DT-FB3WEL-PI T4NM-FDA0 T4NM-FDB0 T4PK-B01TR7 T4PK-B02TR6-P T4PK-B02TR7-P T4PK-F01TR7 T4W2-B01C7 T4W2-F01C7 T4W2-F01C7-P T4W2-F02B6 T4W2-F02B6-PI