

((•))		Elatec RFID Systems	TWN4 MultiTech (125 kHz + 134.2 kHz + 13.56 MHz + NFC + Bluetooth Low Energy)					
with Antenna →		HF Mini Reader	2 BLE	2 BLE P	2 BLE PI	LEGIC	LEGIC P	
without Antenna →			Standard	Standard P	Standard PI	Core LEGIC	Core LEGIC P	
			Core	Core P	Core PI	Core LEGIC	Core LEGIC P	
			Nano	Nano P	Nano PI	Nano LEGIC	Nano LEGIC P	
13.56 MHz	ISO14443A	HID iCLASS Seos/Seos Elite	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾	✓ ¹⁰⁾	✓ ¹⁾	✓ ¹⁾
		LEGIC Advant	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾	✓	✓
		MIFARE Classic	✓	✓	✓	✓	✓	✓
		MIFARE Classic EV1	✓ ⁵⁾	✓ ⁵⁾	✓ ⁵⁾	✓ ⁵⁾	✓ ⁵⁾	✓ ⁵⁾
		MIFARE Mini	✓	✓	✓	✓	✓	✓
		MIFARE DESFire EV1	✓	✓	✓	✓	✓	✓
		MIFARE DESFire EV2	✓ ⁵⁾	✓ ⁵⁾	✓ ⁵⁾	✓ ⁵⁾	✓ ⁵⁾	✓ ⁵⁾
		MIFARE Plus S, X	✓	✓	✓	✓	✓	✓
		MIFARE Pro X	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾
		MIFARE Smart MX	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾
		MIFARE Ultralight	✓	✓	✓	✓	✓	✓
		MIFARE Ultralight C	✓	✓	✓	✓	✓	✓
		MIFARE Ultralight EV1	✓	✓	✓	✓	✓	✓
		NTAG2xx	✓	✓	✓	✓	✓	✓
		PayPass	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾
		SLE44R35	✓	✓	✓	✓	✓	✓
		SLE66Rxx (my-d move)	✓	✓	✓	✓	✓ ⁶⁾	✓ ⁶⁾
	Topaz	✓	✓	✓	✓	✓	✓	
	ISO14443B	Calypso	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾
		Calypso Innovatron protocol	✓ ⁶⁾	✓ ⁶⁾	✓	✓	✓	✓
		CEPAS	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾
		CTS	✓	✓	✓	✓	✓	✓
		Moneo	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾
		Pico Pass	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓ ¹⁾	✓ ¹⁾
		SR14K, SR1X4K	✓	✓	✓	✓	✓	✓
	ISO18092/ ECMA340	SRI512, SRT512	✓	✓	✓	✓	✓	✓
		NFC Forum Tag Type 1-5	✓	✓ ³⁾	✓ ³⁾	✓ ³⁾	✓ ³⁾	✓ ³⁾
	ISO15693	NFC Peer-to-Peer	✓	✓	✓	✓	✓	✓
		Sony FeliCa	✓ ⁷⁾	✓ ⁷⁾	✓ ⁷⁾	✓ ⁷⁾	✓ ⁷⁾	✓ ⁷⁾
		EM4x33	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾
		EM4x35	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾
		HID iCLASS	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾	✓ ¹⁰⁾	✓ ¹⁾	✓ ¹⁾
		HID iCLASS SE/SR/Elite	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾	✓ ¹⁰⁾	✓ ¹⁾	✓ ¹⁾
		ICODE SLI	✓	✓	✓	✓	✓	✓
		LEGIC Advant	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾	✓	✓
		M24LR16/64	✓	✓	✓	✓	✓	✓
		MB89R118/119	✓	✓	✓	✓	✓	✓
		Pico Pass	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾
		SRF55Vxx (my-d vicinity)	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾	✓ ⁶⁾
		Tag-it	✓	✓	✓	✓	✓	✓
	125 kHz / 134.2 kHz	LEGIC Prime	✓	✓	✓	✓	✓	✓
		AWID	✓	✓	✓	✓	✓	✓
		Cardax	✓	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾
		CASI-RUSCO	✓	✓	✓	✓	✓	✓
		Cotag	✓	✓	✓	✓	✓	✓
Deister		✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	
EM4100, 4102, 4200		✓	✓ ¹¹⁾	✓ ¹¹⁾	✓ ¹¹⁾	✓ ¹¹⁾	✓ ¹¹⁾	
EM4050, 4150, 4450, 4550		✓	✓	✓	✓	✓	✓	
EM4305		✓	✓ ⁴⁾	✓ ⁴⁾	✓ ⁴⁾	✓ ⁴⁾	✓ ⁴⁾	
FDX-B, EM4105		✓	✓	✓	✓	✓	✓	
G-Prox		✓	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	
HID DuoProx II (1336)		✓	✓	✓	✓	✓	✓	
HID ISO Prox II (1386)		✓	✓	✓	✓	✓	✓	
HID Micro Prox (1391)		✓	✓	✓	✓	✓	✓	
HID ProxKey III (1346)		✓	✓	✓	✓	✓	✓	
HID Prox		✓	✓	✓	✓	✓	✓	
HID Prox II (1326)		✓	✓	✓	✓	✓	✓	
HITAG 1, 2, S		✓	✓ ⁸⁾	✓ ⁸⁾	✓ ⁸⁾	✓ ⁸⁾	✓ ⁸⁾	
ICT		✓	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	
IDTECK		✓	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	✓	✓ ⁹⁾	
Indala		✓	✓	✓	✓	✓	✓	
ioProx		✓	✓	✓	✓	✓	✓	
ISONAS		✓	✓	✓	✓	✓	✓	
Keri		✓	✓	✓	✓	✓	✓	
Miro		✓	✓	✓	✓	✓	✓	
Nedap		✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	
Nexwatch		✓	✓	✓	✓	✓	✓	
PAC		✓	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	✓ ⁹⁾	
Pyramid		✓	✓	✓	✓	✓	✓	
Q5		✓	✓	✓	✓	✓	✓	
T5557, T5567, T5577	✓	✓	✓	✓	✓	✓		
TIRIS/HDX	✓	✓	✓	✓	✓	✓		
TITAN (EM4050)	✓	✓	✓	✓	✓	✓		
UNIQUE	✓	✓	✓	✓	✓	✓		
ZODIAC	✓	✓	✓	✓	✓	✓		

1) UID only 2) UID Only, read/write on request 3) NFC Forum Tag 1 and 5 on request only 4) on request 5) r/w, enhanced security features planned 6) r/w in direct chip command mode
7) UID + r/w public area 8) Without crypto 9) Hash value only 10) UID + PAC (CSN & Facility Code), r/w on request 11) only emulation of 4100, 4102

((()))		Elatec RFID Systems		Single-frequency reader/writers (125 kHz / 134.2 kHz / 13.56 MHz ± NFC)				
		with Antenna →	Mini Reader MIFARE NFC	TWN4				
				PCSC HF	MultiTech HF Mini	MultiTech HF Mini I	MultiTech 2 & 3 LF	MultiTech 2 & 3 LF P
		without Antenna →			MultiTech 2 & 3 HF	MultiTech Nano HF I	MultiTech Nano LF	MultiTech Nano LF P
13.56 MHz	ISO14443A	HID iCLASS Seos/Seos Elite		✓ ¹⁾	✓ ¹⁾	✓ ¹⁰⁾		
		LEGIC Advant	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾			
		MIFARE Classic	✓	✓	✓			
		MIFARE Classic EV1	✓ ⁵⁾	✓	✓ ⁵⁾	✓ ⁵⁾		
		MIFARE Mini	✓	✓	✓			
		MIFARE DESFire EV1	✓ ¹²⁾	✓	✓	✓		
		MIFARE DESFire EV2	✓ ¹²⁾	✓	✓ ⁵⁾	✓ ⁵⁾		
		MIFARE Plus S, X	✓	✓	✓	✓		
		MIFARE Pro X	✓ ¹⁾		✓ ⁶⁾	✓ ⁶⁾		
		MIFARE Smart MX	✓ ⁶⁾	✓	✓ ⁶⁾	✓ ⁶⁾		
		MIFARE Ultralight	✓	✓	✓	✓		
		MIFARE Ultralight C	✓	✓	✓	✓		
		MIFARE Ultralight EV1	✓ ⁵⁾	✓	✓	✓		
		NTAG2xx	✓	✓	✓	✓		
		PayPass	✓ ⁶⁾	✓	✓ ⁶⁾	✓ ⁶⁾		
		SLE44R35	✓	✓	✓	✓		
		SLE66Rxx (my-d move)	✓ ⁶⁾	✓ ²⁾	✓	✓		
	Topaz		✓	✓	✓			
	ISO14443B	Calypso	✓ ⁶⁾	✓	✓ ⁶⁾	✓ ⁶⁾		
		Calypso Innovatron protocol		✓	✓ ⁶⁾			
		CEPAS	✓ ⁶⁾	✓	✓ ⁶⁾	✓ ⁶⁾		
		CTAS		✓	✓	✓		
		Moneo	✓ ⁶⁾	✓	✓ ⁶⁾	✓ ⁶⁾		
		Pico Pass	✓ ²⁾	✓ ²⁾	✓ ²⁾	✓ ²⁾		
		SRI4K, SRIX4K	✓	✓ ⁴⁾	✓	✓		
	ISO18092/ ECMA-340	SRI512, SRT512	✓	✓ ⁴⁾	✓	✓		
		NFC Forum Tag Type 1-5	✓ ³⁾	✓	✓ ³⁾	✓ ³⁾		
		NFC Peer-to-Peer			✓	✓		
	ISO15693	Sony FeliCa	✓ ¹⁾	✓ ²⁾	✓ ⁷⁾	✓ ⁷⁾		
		EM4x33		✓ ²⁾	✓ ⁶⁾	✓ ⁶⁾		
		EM4x35		✓ ²⁾	✓ ⁶⁾	✓ ⁶⁾		
		HID iCLASS		✓ ¹⁾	✓ ¹⁾	✓ ¹⁰⁾		
		HID iCLASS SE/SR/Elite		✓ ¹⁾	✓ ¹⁾	✓ ¹⁰⁾		
		iCODE SLI		✓	✓	✓		
		LEGIC Advant		✓ ¹⁾	✓ ¹⁾	✓ ¹⁾		
M24LR16/64			✓	✓	✓			
MB89R118/119			✓	✓	✓			
Pico Pass			✓ ²⁾	✓ ¹⁾	✓ ¹⁾			
SRF55Vxx (my-d vicinity)			✓ ²⁾	✓ ⁶⁾	✓ ⁶⁾			
Tag-it			✓	✓	✓			
125 kHz / 134.2 kHz		AWID					✓	✓
	Cardax					✓ ⁹⁾	✓ ⁹⁾	
	CASI-RUSCO					✓	✓	
	Cotag						✓	
	Deister					✓ ⁹⁾	✓ ⁹⁾	
	EM4100, 4102, 4200					✓ ¹¹⁾	✓ ¹¹⁾	
	EM4050, 4150, 4450, 4550					✓	✓	
	EM4305					✓ ⁴⁾	✓ ⁴⁾	
	FDX-B, EM4105					✓	✓	
	G-Prox						✓ ⁹⁾	
	HID DuoProx II (1336)						✓	
	HID ISO Prox II (1386)						✓	
	HID Micro Prox (1391)						✓	
	HID ProxKey III (1346)						✓	
	HID Prox						✓	
	HID Prox II (1326)						✓	
	HITAG 1, 2, S						✓ ⁸⁾	✓ ⁸⁾
	ICT						✓ ⁹⁾	✓ ⁹⁾
	IDTECK						✓ ⁹⁾	✓ ⁹⁾
	Indala						✓	✓
	ioProx						✓	✓
	ISONAS						✓	✓
	Keri						✓	✓
	Miro						✓	✓
	Nedap						✓ ⁹⁾	✓ ⁹⁾
	Nexwatch						✓	✓
	PAC						✓ ⁹⁾	✓ ⁹⁾
	Pyramid						✓	✓
	Q5						✓	✓
	T5557, T5567, T5577						✓	✓
	TIRIS/HDX						✓	✓
	TITAN (EM4050)						✓	✓
UNIQUE						✓	✓	
ZODIAC						✓	✓	

1) UID only 2) UID Only, read/write on request 3) NFC Forum Tag 1 and 5 on request only 4) on request 5) r/w, enhanced security features planned 6) r/w in direct chip command mode
7) UID + r/w public area 8) Without crypto 9) Hash value only 10) UID + PAC (CSN & Facility Code), r/w on request 11) only emulation of 4100, 4102 12) AES only

ELATEC GmbH • Zeppelinstr. 1 • 82178 Puchheim • Germany
P +49 89 552 9961 0 • F +49 89 552 9961 129 • E-Mail: info-rfid@elatec.com
elatec.com



Elatec reserves the right to change any information or data in this document without prior notice. Elatec declines all responsibility for the use of this product with any other specification but the one mentioned above. Any additional requirement for a specific customer application has to be validated by the customer himself at his own responsibility. Where application information is given, it is only advisory and does not form part of the specification. Disclaimer: All names used in this document are registered trademarks of their respective owners.