



TagTrans[®] contact- and wireless Identification

Read/Write Electronic for RFID Transponders and/or 2 D Imager with Bluetooth Interface
von DATATRONIC Identsysteme



TagTrans[®]

2 D Imager and RFID identification system for UHF, HF and LF Transponders.

Mainly used as a hand held reader to identify objects, like cans, beer kegs, pressure cylinders,...and persons or live stock. The **Bluetooth Technology** realises a contact less – wireless operation. Best example is a Mobile Computer in the driver's cabinet connected wireless to the TagTrans reading milk cans or gas bottles around a truck. Or it is used as a fixed device for applications in asset control, factory automation, access control, etc.

- ☑ Low power consumption, power management utility for integrated rechargeable batteries
- ☑ integrated front side antenna
- ☑ reading distance from touch up to 100 mm, depending on HF or LF transponder type, with UHF transponders up to 600 mm
- ☑ 2 D Imager to read all standard 1 D and 2D Barcodes
- ☑ Programmable motion sensor to switch the device ON and OFF
- ☑ Operating Temperature -20C to +85C
Storage Temperature -40C to +85
- ☑ CE, FCC, ATEX option : EX nL IIC T6
- ☑ Communication protocol ASCII or Binary
- ☑ Communication Interface USB, serial RS232 or mainly via BT
- ☑ Transparent mode, RoHS compliant
- ☑ Easy to handle, robust body, highest protection against dust and submerge under water, IP67
- ☑ Industrial Bluetooth Class 1, Bluetooth 2.0 + EDR module
- ☑ Connection to PDA's, PCs, Mobile Computers with Bluetooth - USB Stick, CF, SD, PC Cards or integrated Bluetooth (Mobile Phones)
- ☑ Beeper, LED indicators for Power, Signal, Communication Control
- ☑ Made for outside operations, industrial areas, rough environment, on vehicles, ...
- ☑ Compact and ergonomic design, small size: 49 mm Ø x 225 mm

FlexiScan[®] and TagTrans[®]



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Supported Transponders

Micro Engine RFID Modules (Read/Write), BT Module and Imager Module

UHF 860 – 960 MHz

RF Transmit Frequency	865 – 868 MHz (EU), 902 – 928 MHz (USA), 952 – 954 MHz (JP)
Supported Standards UHF	ISO 18000 – 6C, EPC Class1 Gen2
Supported Tag-ICs for UHF	UCODE G2XM UCODE G2XL, and compatible ISO...

HF 13.56 MHz Multi ISO / Mifare Easy / Wiegand Mifare Easy

RF Transmit Frequency	13.56MHz			
Supported Standards HF	ISO14443A, ISO14443B, ISO 15693, ISO 18000-3, NFC enabled, I-CODE			
Supported Tag-ICs for HF Multi ISO	Mifare® Standard Mifare® 4k Mifare® Pro Mifare® Ultralight Mifare® DESFIRE Mifare® SmartMX	I-CODE SLI (SL2 ICS 20) I-CODE EPC (SL2 ICS 10) I-CODE UID (SL2 ICS 11) I-CODE NFC (Reader To Tag Mode) SLE 55Rxx SRF55VxxP+S SLE 66CL160S SLE 66CLX320P	SR176 SRIX4K LRI 64 LRI 512 EM4135 KSW Temp Sens® Tag-it™ HF-I Standard Tag-it™ HF-I Pro	Jewel Tag Sharp B ASK GTML ASK GTML2ISO TOSMART P032/P064 ISO14443A Tags ISO14443B Tags ISO15693 Tags ISO18000-3 Tags

HF 13.56 MHz

RF Transmit Frequency	13.56MHz
Supported Tag-ICs	Gem+ / Tag-Sys, ARI0 10/210, ARI0 40/240

LF 125/134 kHz Multi Tag

RF Transmit Frequency	125 kHz, 134,2 kHz			
Supported Standards LF	ISO 11784, ISO 11785, ISO 18000-2			
Supported Tag-ICs for LF Multi Tag	Hitag 1 Hitag 2 Hitag S	Q5 EM4X02 EM4X05 (ISO FDX B) EM4X50	TI-RFID Systems	134.2 kHz: 64Bit R/O 64Bit R/W 1088Bit Multipage

Embedded Modules

WT11 EDR Module

WT11 is a next-generation, class 1, *Bluetooth 2.1 + EDR* module. It's a highly integrated *Bluetooth* module, containing all the necessary elements from *Bluetooth* radio to antenna, and a fully implemented *iWRAP* protocol stack.

Technical Data

Key Features	Bluetooth class 1
	Integrated chip antenna or U.FL connector
	USB, UART, GPIO, AIO and PCM interfaces
	802.11 co-existence interface
	8MB flash memory
	Size: 35 x 14 x 2,3mm
	Simple iWRAP firmware for controlling Bluetooth wireless technology
	Industrial temperature range from -40C to +85C
	RoHS compliant
	Up to 14 supported Bluetooth profiles in iWRAP firmware
	Also available with HCI firmware
	Support for on-board applications
	Fully qualified end product with Bluetooth 2.1+ EDR, CE, IC and FCC

BARCODE 2D Imager - OEM scan engine von Motorola

Superior 2D imaging for mobile applications

The miniature 2D Imager Engine is designed for optimal integration into mobile devices. The superior image quality of the VGA charge coupled device (CCD) also enables signature and image capture. Its companion decoder, controls camera functions and decodes all popular 1D and 2D symbolologies omni-directionally.

Technical Data

Scan Engine	
Performance Characteristics	
Sensor Resolution:	640 (H) x 480 (V) (gray scale)
Field of View:	Horizontal:32.2° Vertical: 24.5°
Focal Distance from Front of Engine:	Standard Focus: Near: 5 inches Far: 9 inches High Density Focus: Near: 3.2 inches Far: 6.5 inches
Aiming LED (VLD):	650 ± 5 nm
Illumination Element:	635 ± 20 nm (LED)
Min. Print Contrast:	Minimum 25% absolute dark/light reflectance measured at 650 nm
Decoder	
Performance Characteristics	
Symbolologies Supported:	All major 1D bar codes 2-D: MaxiCode, PDF417, DataMatrix, QR Code, Aztec & Composite Codes Postal Codes: US Postnet, US Planet, UK Postal, Australian Postal, Japan Postal
Image File Formats:	BMP, TIFF, JPEG
Programmable Parameters:	Power Mode, Trigger mode, Beeper tone, session time, focus control, camera control, image control, advanced data formatting, Document capture, Signature capture



Ordering Information TagTrans: x) supported transponders see page before

	TagTrans®
Product	Description
TagTrans-UHF	MultiTag Read/Write electronic for ISO 18000-6C, EPC Class1 Gen2 (UCODE G2XM, G2XL, etc...)
TagTrans-HF	MultiTag Read/Write electronic for ISO 15693, ISO 14443 A/B, (I-Code, Tag-it, My-D, etc...)
TagTrans-LF	MultiTag Read/Write electronic for 125 / 134 kHz and ISO-Animal Tags
TagTrans-Gem+	Read/Write electronic Gem+ Series 210 and 240 Tags

Ordering Information for the enhanced option FlexiScan:

	FlexiScan
Product	Description
FlexiScan – HF –1, /-10, / -36	MultiTag Read/Write electronic for ISO 15693, ISO 14443 A/B, (I-Code, Tag-it, My-D, etc...) with flexible extension (metal hose) of 1, 10, 36 cm length (others on request)
FlexiScan – LF – 1, /-10, / -36	MultiTag Read/Write electronic for 125 / 134 kHz and ISO-Animal Tags with flexible extension (metal hose) of 1, 10, 36 cm length (others on request)
FlexiScan - Gem+ -1, /-10, /-36	Read/Write electronic Gem+ Series 210 and 240 Tags with flexible extension (metal hose) of 1, 10, 36 cm length (others on request)

Ordering Information for Accessories:

	Accessories for TagTrans® and FlexiScan
Product	Description
USB BT Stick	Bluetooth USB Adapter 2.0 + EDR Bt200
Cradle	Cradle with power supply

