

DTAG100-PRO smart beacon and dynamic tag module



The DTAG100-PRO smart beacon and dynamic tag module from Dot Origin is an internal device that enables easy configuration and rapid modification of BLE beacon and NFC tag data via USB. Based on the well-established range of intelligent beacons and dynamic NFC tags, the DTAG100-PRO is a universal module designed to connect directly with digital signage, media players, PCs and other systems, offering complete platform independence without the need for software drivers or any knowledge of NFC, iBeacon or Bluetooth Low Energy protocols or data formats.

Unlike standard NFC tags and BLE beacons, which cannot be updated dynamically in the field, the DTAG100-PRO connects via USB and is designed to appear as a removable mass storage device. All configuration is via simple text files that can be edited manually or generated easily by host applications or add-on scripts. To compatible mobile phones it appears as a true standards-based NFC tag that can be changed and updated by the attached system whenever needed. It simultaneously appears as a standard fully-licensed Apple iBeacon, or as various other custom beacons, to the many iPhone and Android devices equipped with Bluetooth 4.0, and again can be re-configured by the attached host as needed. It even has the ability to emulate multiple iBeacons simultaneously!

With plenty of on-board flash storage, the DTAG100-PRO is also capable of intelligent, stand-alone operation, with comprehensive logging and monitoring features. As well as customised NFC tag and iBeacon data, the DTAG100-PRO also enables application data to be transmitted back from the phone via NFC and/or Bluetooth, opening up opportunities for exciting new interactions and uses.

The DTAG100-PRO is suitable for use in many applications including BLE- and NFC-enabling out-of-home (OOH) advertising platforms and other digital signage products and solutions, as well as for interactive kiosks and payment applications. The built-in software-controlled hotspot highlighting LEDs can be used to enhance the user experience where appropriate, and a desktop enclosure and various other options for integration are available - please contact us for more details.

The DTAG100-PRO has been tested with a wide variety of phones and systems including Android, iOS, Windows and Linux. It comes complete with USB cable and links to full user documentation, developer guide and a comprehensive suite of demo apps for Chrome, iOS and Android, including source code and full technical support.

The DTAG100-PRO intelligent beacon and dynamic NFC tag module that enables easy and regular updating of beacon data for digital signage, kiosks and other platforms, via USB. Comprehensive demos and documentation included. Fully licensed Apple iBeacon compliant.

To buy, visit:

<https://www.smartcardfocus.com/shop/ilp/id~690/DTAG100-PRO-smart-beacon-and-dynamic-tag-module/p/index.shtml>

This Product Briefing has been produced by Dot Origin Ltd, the smart card experts behind SmartcardFocus.com. If you have a query email sales@smartcardfocus.com or call us on +44 (0)1428 685250.

DTAG100

Technical Specifications

Form-factor: Desktop case, wallbox or bare PCB

Dimensions: PCB: 78 x 78 x 15mm (3.1 x 3.1 x 0.59in) ; Cased: 110 x 110 x 60mm (4.3 x 4.3 x 2.4in)

Proximity interfaces: NFC + Bluetooth LE (DTAG100-PRO); NFC only (DTAG100-NFC)

Host interface + power: USB

LED highlighting: Yes - default 700mcd blue x 4

Device emulation: Mass storage, keyboard, serial COM

Secure firmware update: Yes, via USB mass storage

On-board data storage: 512KB, expandable to 2GB

Host O/S compatibility: Any

NFC antenna: PCB 24 x 20mm (0.94 x 0.78in), optional 150mm (5.9in) cable

Dynamic NFC tag: Yes

Multiple NDEF records/types: Yes

NFC activity logging: Yes

NFC write-back: Yes

Bluetooth functions - DTAG100-PRO only

BLE antenna: Ceramic, optional external UFL/SMA

Dynamic BLE beacon: Yes

Multiple virtual beacons: Yes*

iBeacon/proprietary beacons: Yes

Dynamic GATT attributes: Yes

BLE activity logging: Yes

BLE write-back: Yes

Manufacturer: Dot Origin