

B a s i c F a c t S h e e t

KIT iCON

Keep in Touch – intelligent Connectivity Device

abatec electronic solutions GmbH &
AIT Austrian Institute of Technology GmbH

Autoren

Jürgen Morak, Kurt Edegger, Peter Kastner
AIT Austrian Institute of Technology GmbH

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1 VERSION AND CHANGE LOG

| Version Number | Description | HW/FW Version | Manual Version |
|----------------|-----------------|---------------|----------------|
| 0.1 | Initial Version | 2.1.1 / 2.1.1 | 0.95 |
| 1.0 | Final Version | 2.1.1 / 2.1.1 | 0.95 |

2 ACRONYMS AND ABBREVIATIONS

| | |
|-------------|---|
| BT Classic | Bluetooth Classic |
| BLE / BT LE | Bluetooth Low Energy |
| FW | Firmware |
| HDP | Health Device Profile |
| iCON | Intelligent Connector Device |
| IEEE | Institute of Electrical and Electronics Engineers |
| ISO | International Organization for Standardization |
| LED | Light emitting diode |
| NFC | Near Field Communication |
| USB | Universal Serial Bus |

3 RECOMMENDED DOCUMENTATION

- Continua Health Alliance – Continua Design Guidelines Version 2013
- Health Device Profile Implementation Guidance Whitepaper
https://www.bluetooth.org/docman/handlers/downloaddoc.ashx?doc_id=225927
- ISO/IEEE11073-20601 Optimized Exchange Protocol
<https://standards.ieee.org/findstds/standard/11073-20601-2010.html>
- ISO/IEEE11073-10417 Device Specialization – Glucose Meter
<http://standards.ieee.org/findstds/standard/11073-10417-2011.html>
- Bluetooth Profile Specification – Glucose Profile
<https://developer.bluetooth.org/gatt/profiles/Pages/ProfileViewer.aspx?u=org.bluetooth.profile.glucose.xml>

4 OVERVIEW

The iCON interface module is a communication module to interface an OneTouch VerioIQ blood glucose meter wirelessly via Bluetooth to a smartphone, tablet or personal computer.

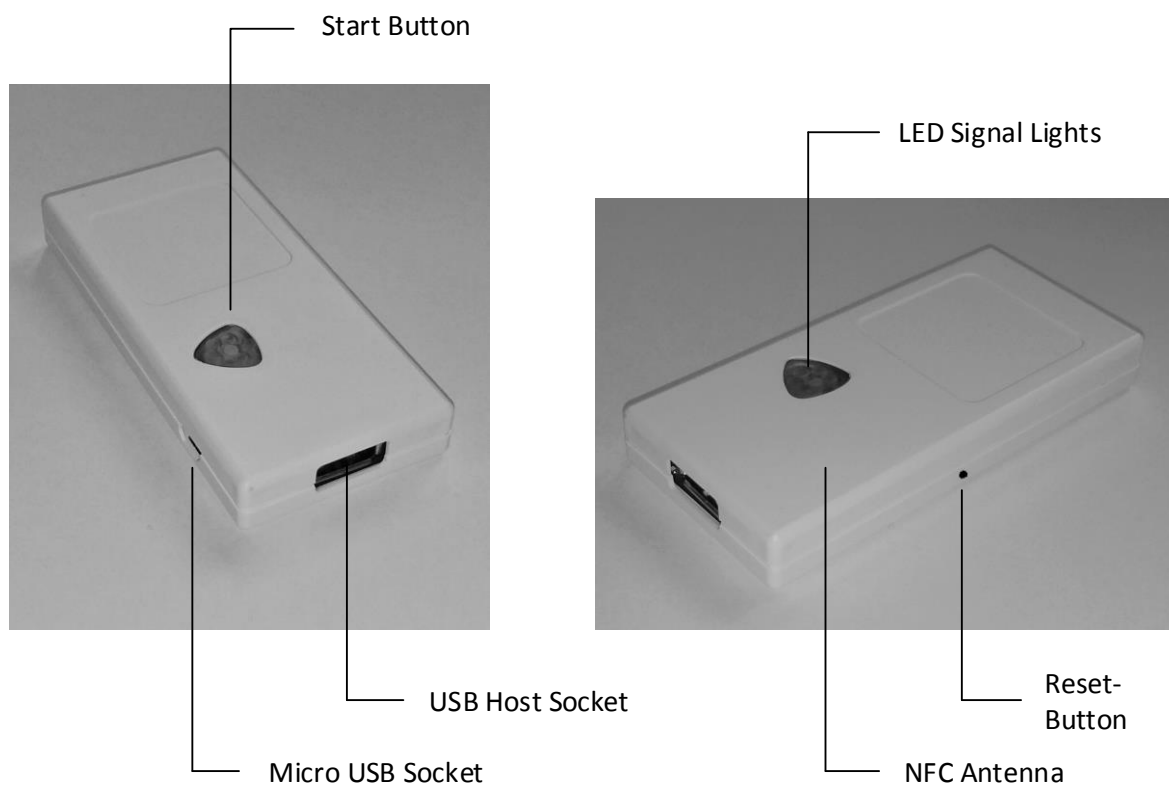
An application running on such a device can access the meters blood glucose readings, system information as well as manage the meters memory, if properly paired and authenticated.

The iCON needs to be connected to the OneTouch VerioIQ meter with the provided USB cable and provides a dual mode Bluetooth module according to Bluetooth 4.0 specifications featuring Bluetooth classic (BT) as well as Bluetooth Low Energy (BLE) communication.

Bluetooth classic communication features the standardized Health Device Profile (HDP) whereas BLE communication is built on the Bluetooth Glucose Profile Specification.

The iCON hosts a rechargeable battery, which can be charged using a 5V USB power supply.

5 COMPONENTS



- USB Host socket: Connect this port to the OneTouch VerioIQ with the provided cable
- Start button/LED Signal lights: iCON signals certain states, progress as well as success or failure with three LEDs (red, blue, green) to the user. The button is used to wake iCON up from its power saving mode.
- NFC Antenna: Touch this area with your NFC enabled phone to wake iCON up from its power saving mode and initiate the transfer of glucose meter readings
- Reset Button: Press this for 3s to perform a factory reset of iCON. A short press (1s) of the button will re-enable Bluetooth pairing and toggles between the two different Bluetooth modes.

- Micro USB socket: This port is used to charge the internal battery and can be used to update iCONS firmware and access the system log.

6 TECHNICAL SPECIFICATIONS

| Battery | |
|--------------------------------------|--|
| Type | Rechargeable Li-Ion battery |
| Recharge type | USB cable |
| Expected life time | 5 years |
| Fabrics | |
| Case | Polycarbonate |
| Connectivity | |
| Bluetooth | Bluetooth 4.0 with Dual mode Bluetooth Classic with HDP Bluetooth Low Energy |
| Near Field Communication | ISO 14443 NFC Forum Type 4 NFC Data Exchange Format (NDEF) MIME-Type based |
| USB | USB 2.0 Micro USB socket (Type-B) USB 2.0 Host socket (Type-A) |
| Compatibility | |
| Android | 4.0 and higher 4.3 when used with Bluetooth Low Energy |
| iOS | iOS devices supporting Bluetooth 4.0 |
| Supported blood glucose meter | |
| OneTouch | VerioIQ |
| Communication | |
| Bluetooth HDP | ISO/IEEE11073-20601 Optimized Exchange Protocol ISO/IEEE11073-10417 Device Specialization – Glucose Meter |
| Bluetooth Low Energy | Bluetooth Glucose Profile Specification org.bluetooth.profile.glucose |

7 DETAILED PRODUCT SPECIFICATIONS

Please contact AIT to receive detailed product specification including workflow, handling, interfaces and protocol.

Contact

AIT Austrian Institute of Technology GmbH
Donau City Straße 1, 1220 Wien

www.ait.ac.at | <https://kit.ait.ac.at>

Fax +43 50550- 2950

Peter Kastner

Senior Engineer

Department Safety & Security

Assistive Healthcare Information Technology

+43 50550-2965

peter.kastner@ait.ac.at

Anton Duzendorfer

Head of Business Unit

Department Safety & Security

Assistive Healthcare Information Technology

+43 50550- 2962

anton.duzendorfer@ait.ac.at