

[1] **TYPE EXAMINATION CERTIFICATE**



[2] **Equipment or Protective System intended for use  
in Potentially Explosive Atmospheres  
Directive 2014/34/EU**

[3] Type Examination Certificate Number: **DEMKO 17 ATEX 1707X Rev. 0**

[4] Product: **Embedded System, model WCH1500-C1D2-V2**

[5] Manufacturer: **iTech Company LLC**

[6] Address: **42978 Osgood Road Fremont, CA 94539 USA**

[7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report no. **4787353244.6**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012+A11:2013**

**EN 60079-15:2010**

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

[11] This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

[12] The marking of the product shall include the following:

**II 3 G Ex nA IIC T4 Gc**

**Certification Manager**  
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

**Date of issue: 2017-11-15**



**Certification Body**

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark  
Tel. +45 44 85 65 65, [info.dk@ul.com](mailto:info.dk@ul.com), [www.ul.com](http://www.ul.com)

## Schedule

### TYPE EXAMINATION CERTIFICATE No.

DEMKO 17 ATEX 1707X Rev. 0

[13]

[14]

[15]

#### Description of Product:

The equipment is a standalone type, Embedded System , modelWCH1500-C1D2-V2, consisted of a 15-inches panel PC and a Box cover, intended to be VESA mouted to the wall. While installing with applicable Ex-certified IP65 wiring, the panel PC has IP65 sealing rating. The box cover does not have IP protection.The equipment provided with LAN port, COM port( Serial Port), USB port and VGA port which can switch either Display mode or Panel PC mode.

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1 to the scope of EN 60079-28:2015.

#### Temperature range:

The relation between ambient temperature and the assigned temperature class is as follows:

**Ambient temperature range**  
-20 °C to +50 °C

**Temperature class**  
T4

#### Electrical data

Input: 9-36 VDC, 6.6A

#### Routine tests

No Routine Tests are necessary.

[16]

#### Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [ 8 ] on page 1 of this Type Examination Certificate.

[17]

#### Special Conditions of Use:

- Subject device has been evaluated to the enclosure requirements for Ingress Protection IP65 in accordance with EN 60079-15. All external connections must be Ex certified with minimum IP65 degree of protection. Suitability of wiring must be determined in end-use applications. Box cover does not have an IP rating
- The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 60664-1.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.

[18]

#### Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

#### Additional information

The Subject Device has in addition passed the tests for Ingress Protection to IP 65 in accordance with EN60529:1991+A1:2000+A2:2013.