



ICO300-83M

ATEX/C1D2 Certificated Gateway

*The Passion of Doing
Great Things*



New Product Selling Point



TPM 2.0/ eMMC/ Isolation I/O



4G/5G communication support



Fully ATEX /C1D2 / UL62368 Certification



Cost effective

Product Concept

- Next generation platform of rbox510
- Reinforce I/O capability
- New ID design based on ICO series
- Adapt new technical specification inside (TPM, M.2 interface)
- Better cost structure
- Fully certificate with ATEX/C1D2



Target Market

Characteristics of Heavy-Duty Industry:

- Large and heavy products
- Large and heavy equipment and facilities
- Complex or numerous processes
- Hazardous environment

Product Features:

- Wide temperature and humidity
- Protect from dust and water
- Shock and vibration
- Public safety and worker safety

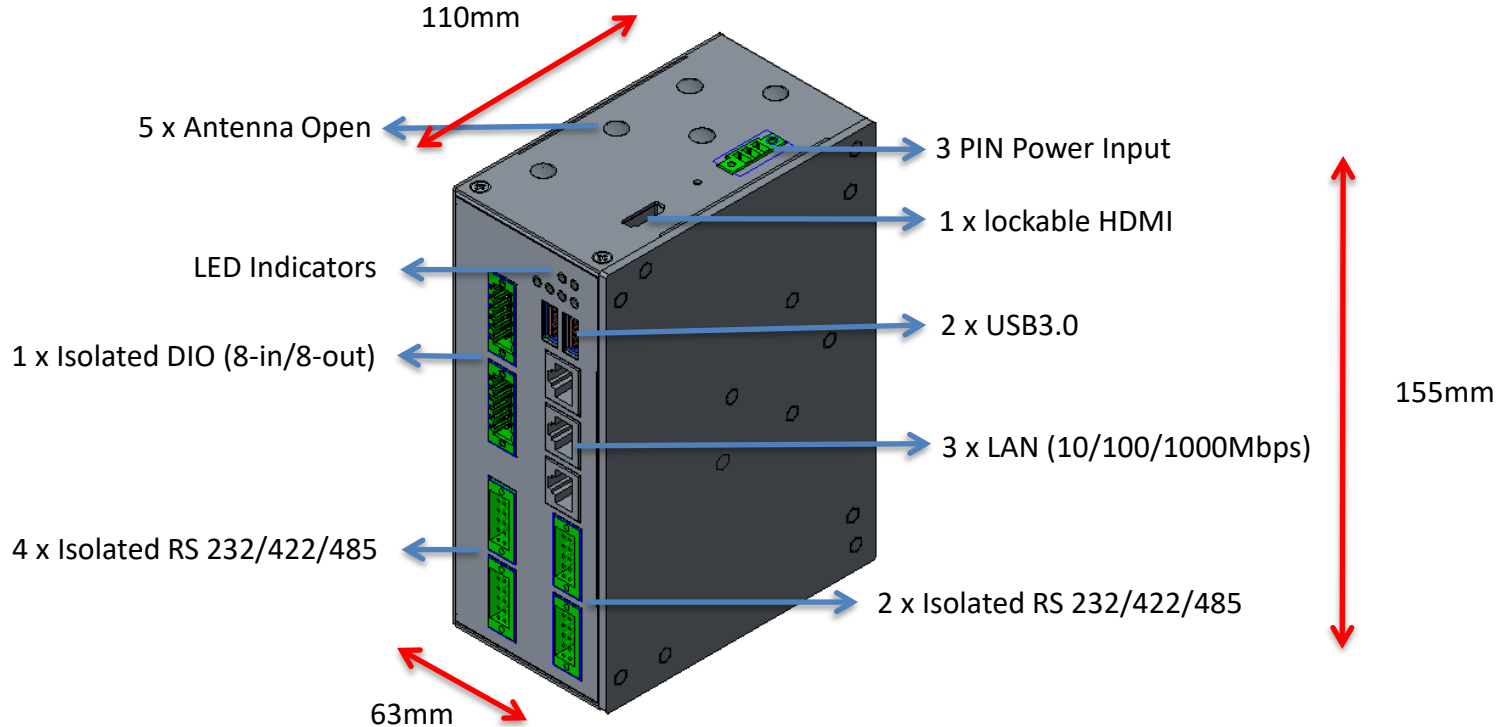
Processing Industries



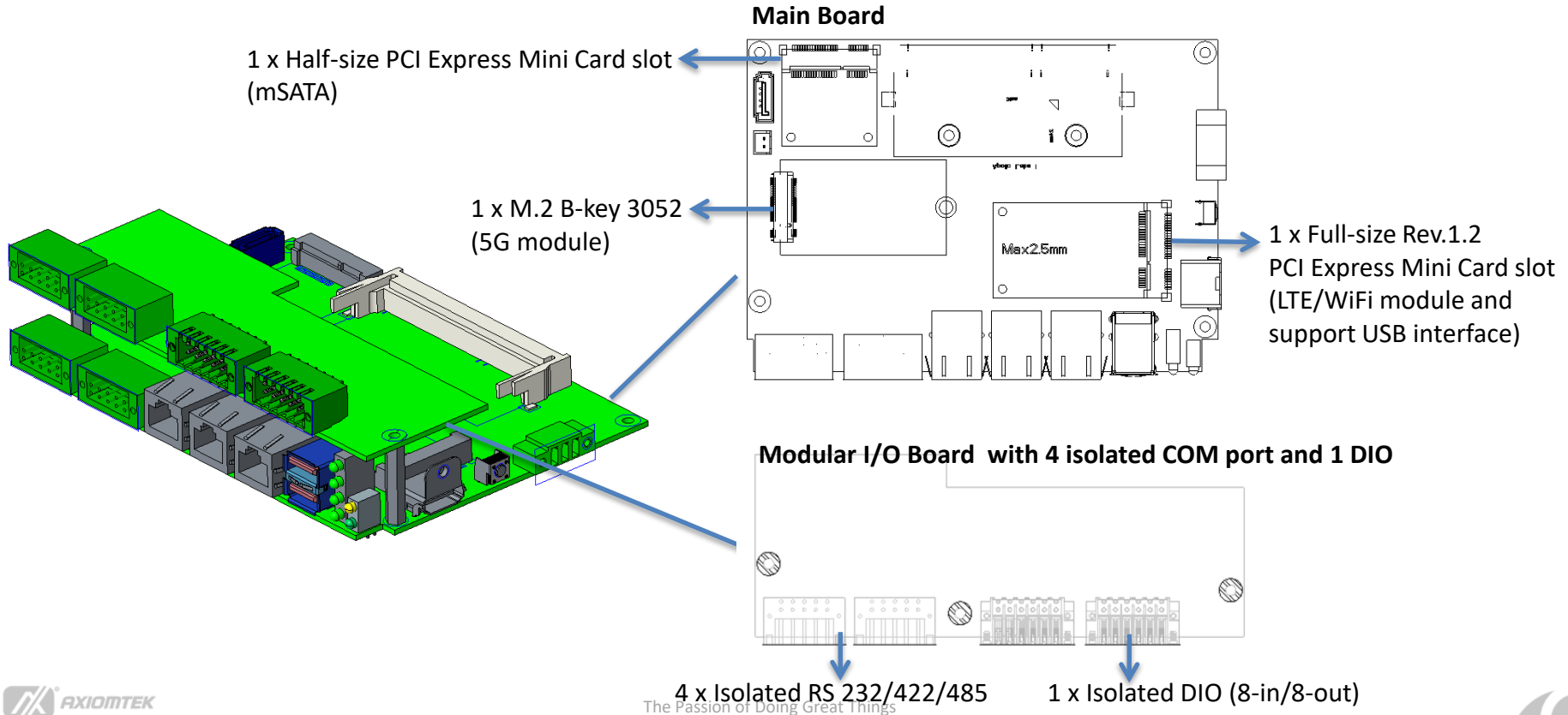


Specification

ICO300-83M Front and Side View



IC0300-83M Internal View



Product Specification IC0300-83M

Processor	Intel® Atom™ APL E3930
System Memory	1 x DDR3L-1866 SO-DIMM, up to 8GB
Serial	<ul style="list-style-type: none"> • 6 x RS-232/422/485 (Terminal Block)(Isolation option) • ESD protection 15kV • Magnetic isolation protection 2kV
USB	<ul style="list-style-type: none"> • 2 x USB 3.0
DIO	<ul style="list-style-type: none"> • 1 isolated DIO (8-in/8-out) • DI: • Input Channels: 8 source type • Input Voltage: 0 to 30VDC Digital input • Digital Input levels for dry/wet contacts • DO: • Output Channels: 8 sink type • Output Current: Max. 200mA per channel • External Voltage: 10 to 30 VDC • Open collector to 30V • Optical isolation protection 3 KV
LAN	<ul style="list-style-type: none"> • 3 x 10/100/1000 Mbps (Intel® i210-IT) • Magnetic isolation protection 1.5 kV
RTC	<ul style="list-style-type: none"> • Battery onboard
Display	<ul style="list-style-type: none"> • Lockable HDMI
TPM	<ul style="list-style-type: none"> • TPM2.0
Power Supply	<ul style="list-style-type: none"> • 9 to 36 VDC with OVP, UVP, Reserve Protection

Storage	<ul style="list-style-type: none"> • 1 x Half-size mSATA (occupied 1 PCIe Mini Card slot) • 1 x 2.5" SATA SSD/HDD (interface SATA) • 1 x eMMC on board
Expansion Interface	<ul style="list-style-type: none"> • 1 x M.2 B-key 3052 : USB3.0 /PCIe (for 5G module) • 1 x Full-size PCI Express Mini Card slot: USB (for LTE/WIFI module) • 1 x Half-size Rev.1.2 PCI Express Mini Card slot: USB/mSATA (for mSATA)
Enclosure Rating	IP40
Mounting	Din Rail/Wall Mount (optional)
OS	Windows 10 & Linux
Dimensions	155*63*110 mm
Weight (net/gross)	TBC
Stable Procurement Period	5+ years
Operating Temp.	-40°C to 75°C
Storage Temp.	-40°C to 85°C
Certification	CE , FCC, ATEX/C1D2, UL62368
Accessories	WiFi/Bluetooth: SparkLAN WPET-236ACN LTE (3G/4G): Quectel EC25 LTE(5G/4G/3G): SIMCOM SIM8200/Sierra EM9190

M.2 x 5G



SIMCOM SIM8200
M.2 3052



SIERRA EM9190
M.2 3052



QUECTEL RM500Q
M.2 3050



Mini PCIe Slots

Fully Certification

NOTICE OF COMPLETION AND AUTHORIZATION TO APPLY THE UL MARK



2018-07-26

MR. JESSE WANG
AXIOMTEK CO LTD
8th Fl 55 Nanxing Rd
Xizhi District
New Taipei, 221, TW

Our Reference: File E472641, Vol.1, Sec.1. Order: 12271409
Project 4788450096

Your Reference: HazLoc : C1D2 for Robust Din-rail Fanless Embedded System, Model rBOX510-6COM
Project Scope:
- Alt. one CPU board & one Wireless module & one mSATA storage module
- Upgrade standard.
- Modify the manufacturer address.

Dear MR. JESSE WANG:

Congratulations! UL's investigation of your product(s) has been completed under the above Reference Number and the product was determined to comply with the applicable requirements. This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark at authorized factories under UL's Follow-Up Service Program. To provide your manufacturer(s) with the intended authorization to use the UL Mark, you must send a copy of this notice to each manufacturing location currently authorized under File E472641, Vol. 1, Sec. 1.

Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent in the near future. Until then, this letter authorizes application of the UL Mark for 90 days from the date indicated above.

Additional requirements related to your responsibilities as the Applicant can be found in the document "Applicant responsibilities related to Early Authorizations" that can be found at the following web-site: <http://www.ul.com/EAResponsibilities>

Any information and documentation provided to you involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

We are excited you are now able to apply the UL Mark to your products and appreciate your business. Feel free to contact me or any of our Customer Service representatives if you have any questions.

Very truly yours,
Jay W. Huang
Engineer Project Associate
Jay.W.Huang@ul.com

Reviewed by:
Bruce A. Mahrenholz
CPO Director
Bruce.A.Mahrenholz@ul.com

TYPE EXAMINATION CERTIFICATE



[2] **Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**

[3] Type Examination Certificate Number: **DEMKO 15 ATEX 1516X Rev. 0**

[4] Equipment: **Robust Din-rail Fanless Embedded System, Model rBOX510-6COM**

[5] Manufacturer: **AXIOMTEK CO LTD**

[6] Address: **8F., No. 4, Lane 235 Baoqiao Rd, Xindian District, New Taipei City, 231 Taiwan**

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

[8] UL International Demko A/S certifies that this equipment has been found to comply with the Essential Health and Safety Requirements that relate to the design of Category 3 equipment, which is intended for use in potentially explosive atmospheres. These Essential Health and Safety Requirements are given in Annex II to the European Union Directive 94/9/EC of 23 March 1994.

The examination and test results are recorded in confidential report no. **478655684**

[9] Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to Standards:

EN 60079-0:2012+A11:2013

EN 60079-15:2010

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

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

[12] The marking of the equipment or protective system shall include the following:

II 3 G Ex nA nC IIC T4 Gc

Certification Manager
Jan-Erik Storgaard

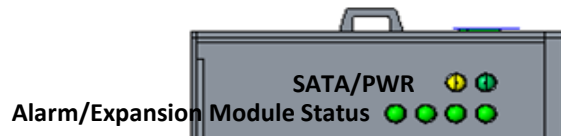
This is to certify that the sample(s) of the Equipment described herein ("Certified Equipment") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program requirements. This certificate and test results intended apply only to the equipment sample(s) submitted by the Manufacturer. UL does not accept the sample(s) or determine whether the sample(s) provided were representative of other manufactured equipment. UL has established Follow-Up services or other arrangements of the equipment. The Manufacturer is solely and fully responsible for conformity of all equipment 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: 2015-10-12

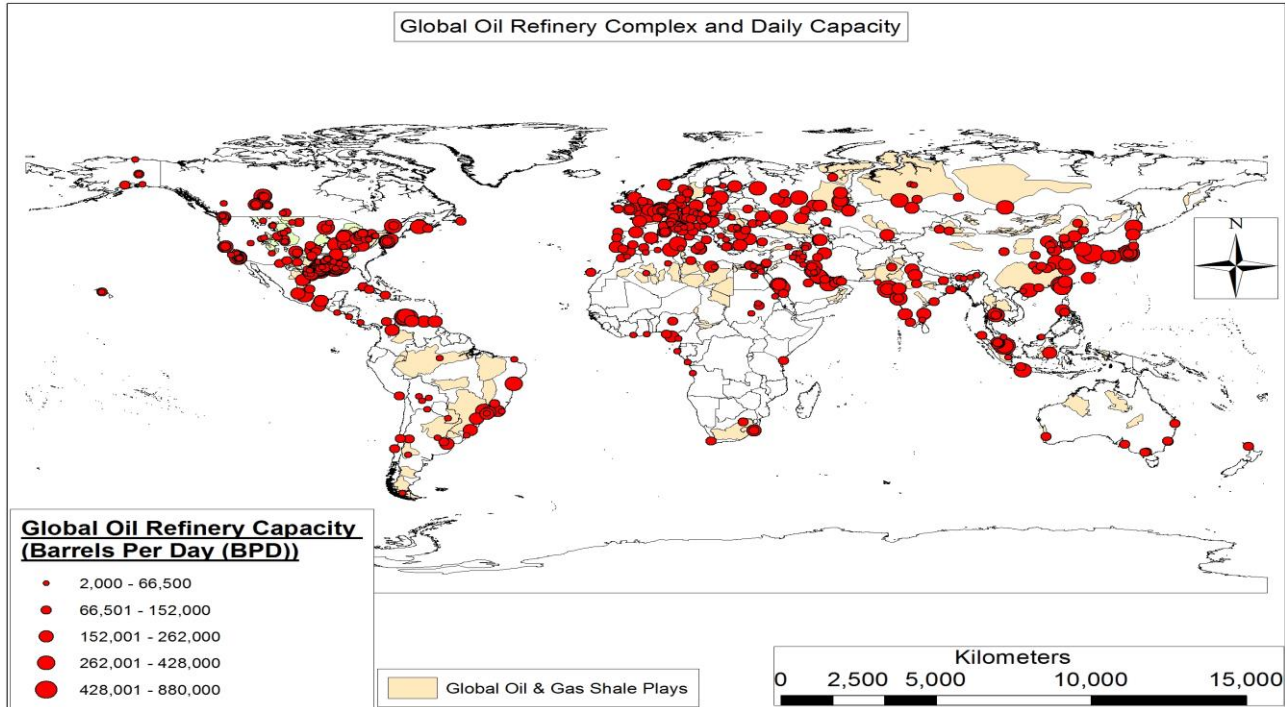
Certification Body UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 65 65 65, info.dk@ul.com, www.ul.com

System LED (For Hazardous Application)

LED Name	Description	Color
SATA	Indicate the storage status and it's flashing when storage access.	Yellow
PWR	Indicate the Power status. -LED will be on for green color when the power DC input is acceptable. -LED will be on for red color when the power DC input isn't acceptable or power fail event.	Green
Programmable		Green
Expansion	-Half size PCIe slot: when mSATA accessed, the LED will flash green -Full size PCIe slot: When antenna accessed data, the LED will flash green -M.2 KeyB 3052: When antenna accessed data, the LED will flash green	Green



Oil & Gas Market



Global Oil Refineries and their Emissions:

- USA
- EU
- Northeast Asia

The Passion of Doing Great Things

大膽轉身, 熱情串聯 | 追求卓越, 迎向冠軍

