



UbiQ-200 Series

Preliminary

Standard / Extended Temperature
Fanless IoT Gateway with
NXP ARM® Cortex®-A9 Core i.MX 6Dual Processor



- NXP ARM® Cortex®-A9 Core i.MX 6Dual Automotive Application Processor
- 1GB/2GB DDR3 1066 memory
- 4GB/8GB eMMC NAND Flash onboard for storage
- 1x HDMI for video output
- 2x LAN, 1x mPCIe, 1x Micro-SIM Cage for network connection and expansion
- 3x USB2.0, 2x COM, 1x DIO for peripheral connection
- Fanless design
- Palm-sized compact volume
- Extended temperature model available: -20°C ~ 70°C



Product Overview

UbiQ-200 Series is a fanless IoT gateway based on NXP ARM® Cortex®-A9 Core i.MX 6Dual Processor with 1GB/2GB of RAM and 4GB/8GB of eMMC. It is an ideal connection and translation platform for the applications requiring competitive power efficiency, such as industrial communication, automotive infotainment, telematics, healthcare, thin clients or HMI.

In addition, It supports 2x LAN, 2x COM, 1x DIO, 1x

Micro-SIM Cage and 1x mPCIe for wireless network expansion to create wired / wireless communication with edge devices and Cloud.

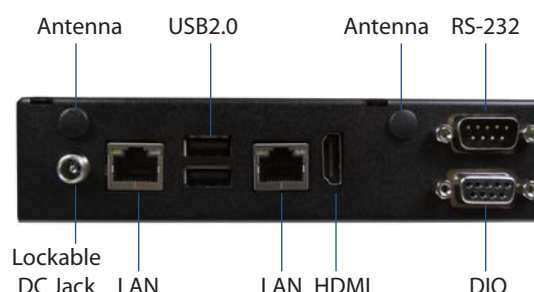
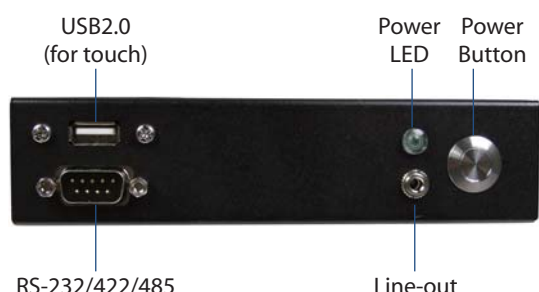
Its palm-sized volume facilitates integration into space-critical applications. Finally, extended temperature models are available for operation under extreme high, low or radically fluctuating temperatures

Technical Information

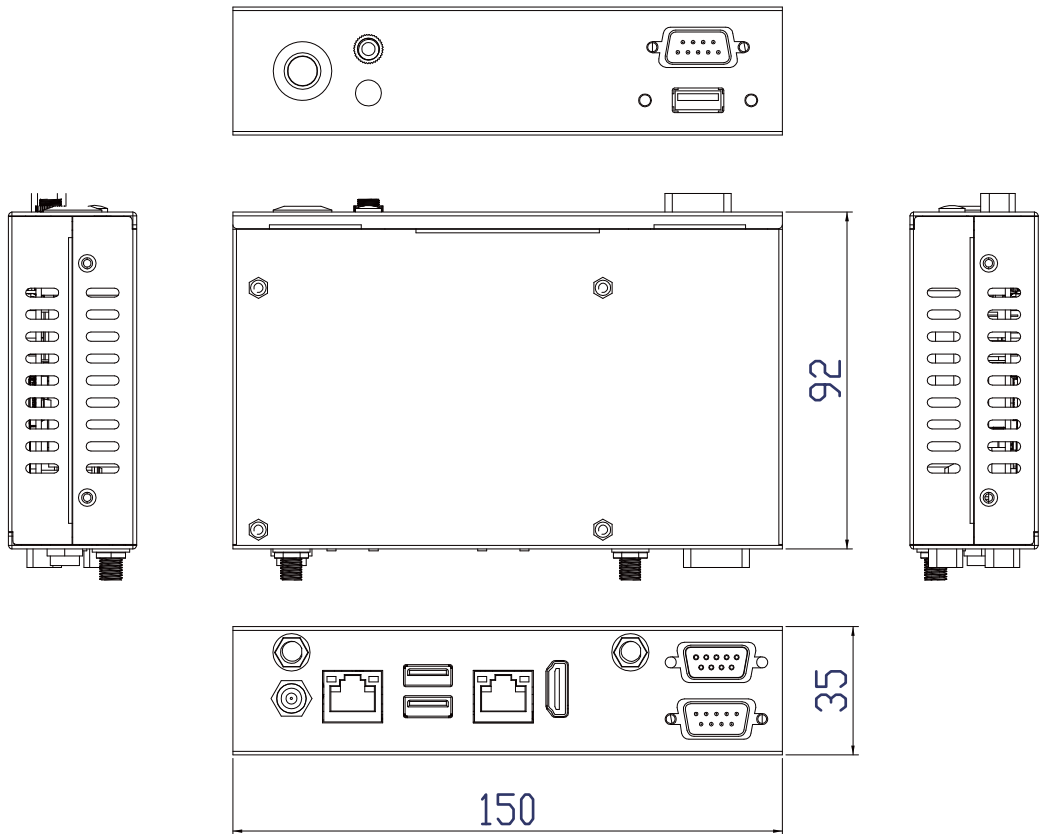
Processor
NXP ARM® Cortex®-A9 Core i.MX 6Dual Automotive Processor (Dual Core, 1M Cache, 1 GHz, 3.5W TDP)
Memory
1GB/2GB DDR3-106 SI-DIMM memory Onboard
Storage
4GB/8GB eMMC NAND Flash onboard
Graphics Controller
Vivante GC2000, Vivante GC355, Vivante GC320
Display Interfaces
1x HDMI (1920 x 1080 @ 30Hz, on rear)
Audio Chipset
Freescale SGTL5000
Audio Interfaces
1x Line-out (on front)
Ethernet
2x LAN (RJ-45 on rear, 1x Micrel KSZ9031RX, 1x Microchip LAN9500A)
USB
3x USB2.0 (1x Type A on front for touch, 2x Type A on rear)
Serial Ports
1x RS-232/422/485 (DB9 on rear/front TBD)
1x SRS-232 (DB9 on front/rear TBD)
Other I/O Ports
1x DIO (DB9 female on rear)
Expansion
1x mPCIe (full size)
1x Micro-SIM Card Cage

Power Supply
Connector: Lockable DC Jack (on rear)
Input Voltage: DC 12V
Power Adapter: AC to DC, 100V ~ 240V
System Control & Monitoring
1x Power Button (on front)
1x Power LED (on front)
Cooling
Fanless
OS Support
Linux 3.0.35
Construction
Metal Chassis
Dimension (W x D x H)
150 x 92 x 35 mm / 5.91" x 3.62" x 1.38"
Weight
0.55 kg / 1.21 lb
Environmental Characteristics
Operating Temperature: 0°C ~ 50°C / 32°F ~ 122°F (Standard)
-20°C ~ 70°C / -4°F ~ 158°F (Extended)
Storage Temperature: -20°C ~ 80°C / -4°F ~ 176°F
Humidity: 0% ~ 90%
Certification
CE, FCC Class A

UbiQ-200 Series I/Os



Mechanical Dimensions



Ordering Information

Article	Part No.	Description
UbiQ-200 Series		NXP ARM® Cortex®-A9 Core i.MX 6Dual Processor, 1GB/2GB DDR3, 4GB/8GB eMMC, 1x HDMI, 2x LAN, 3x USB2.0, 2x COM, 1x DIO, 1x mPCIe, 1x Micro-SIM