INDUSTRIAL COMPUTER | BIS-2237

FEATURES

- NXP i.MX8M Mini Application Processor with Long Life Cycle Support
- Support Up to Two Gigabit Ethernet Ports, with 802.3af PoE Option
- RS232, RS485 and GPIO Port Options
- On-board WiFi Module, Bluetooth and LTE Module Option
- Support Android 10, Yocto Embedded Linux, Debian, Ubuntu
- Slim Vent-hole Free Dustproof Fanless Aluminum Enclosure

The BIS-2237 is a small form factor fanless embedded PC based on NXP i.MX8M Mini application processor. The system supports up to two Gigabit Ethernet ports and Power over Ethernet (PoE) option. The rich I/Os and slim design of this fanless computer fits perfectly for digital signage, kiosk, network security, IoT gateway and other industrial computer applications.

SPECIFICATIONS

SYSTEM

Processor	NXP i.MX8M Mini, 4 x ARM Cortex-A53 @ 1.8GHz, 1 x ARM Cortex-M4 @ 400MHz
Platform	ARM Cortex-A53
Memory	On-board 2GB LPDDR4, Up to 4GB
Storage	On-board iNAND Flash (8GB Default), 1 x Micro SD Slot
OS	Support Android 10, Yocto Embedded Linux, Debian, Ubuntu

I/O INTERFACE

Audio	1 x Mono Class D Speaker Out Internal Header, 2W (4Ω), 2 (R/L) x HP Out Internal Header
Display Interface	Internal MIPI DSI and LVDS
Watchdog Timer	Built-in
I/O Ports	1 x RS232/RS485 Via Terminal Block 2 x GPIO Via Terminal Block 2 or 3 x USB 2.0 Type A 1 x USB Type C 2.0 OTG/Host 1 x M.2 Type E PCIe Option
Expansion	1 x 40 pin Internal Connector with PCIe x1 for 2nd Ethernet, GPIO, Font Panel Control, PoE Power Input

POWER

Power Input	12V-24V DC or 24V AC Via Barrel Connector or Terminal Block, 802.3af PoE Option

COMMUNICATIONS

Ethernet	1 x 10/100/1000 Mbps GbE with PoE Option, Second 10/100/1000 Mbps PCIe GbE (Via PCIe Add-on Card)
Wireless	1 x WiFi / Bluetooth USB Module, 802.11 b/g/n + Bluetooth v4.0

MECHANICAL

Enclosure Material	Aluminum
Enclosure Color	Black
Dimensions	170 x 124 x 39mm (6.7" x 4.9" x 1.54")
Mounting Option	Support 75 x 75mm VESA Mount, or DIN-Rail Mount with Optional Bracket
Cooling	Fanless

ENVIRONMENTAL

Temperature:	
- Operation	-20°C to 60°C (-28°F to 140°F)
- Storage	-40°C to 85°C (-40°F to 185°F)
Humidity	10% to 95% @ 40°C Non-condensing

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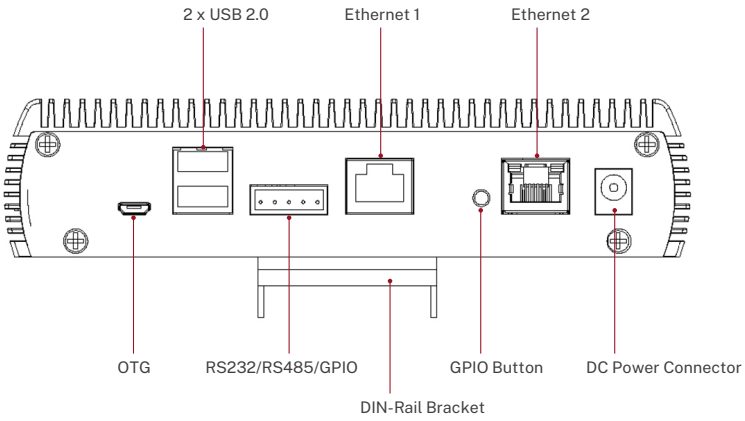
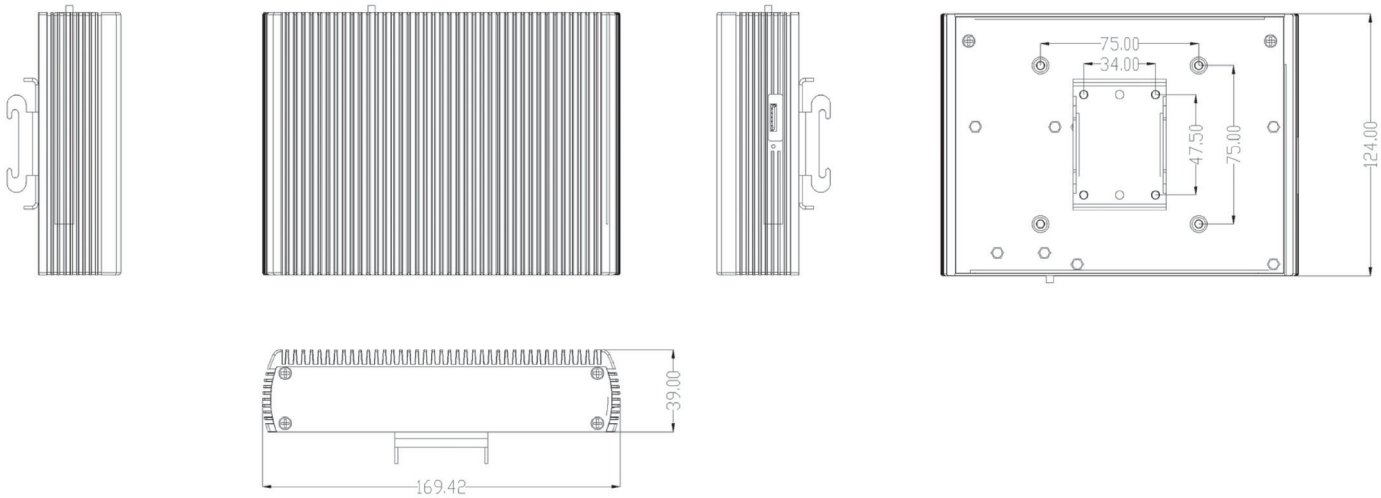
SYSTEM LAYOUT



PRODUCT DIMENSIONS

Unit: mm



ORDER INFORMATION

Part No.	Description
BIS-2237-QSP	Fanless PC with i.MX8M Mini Processor, Two USB Type A, POE Power Input
BIS-2237-QPT	Fanless PC with i.MX8M Mini Processor, Two USB Type A, Dual NIC and 12-24V DC Power Input
BIS-2237-QST	Fanless PC with i.MX8M Mini Processor, Three USB Type A, 12-24V DC/24V AC Power Input

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