NXP i.MX6 Series
Fanless Embedded System

EC900-FS6

NXP



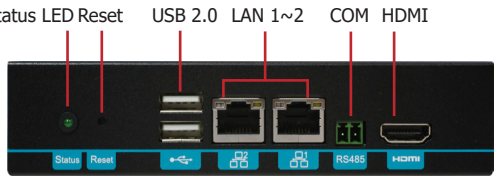
Fanless

Features

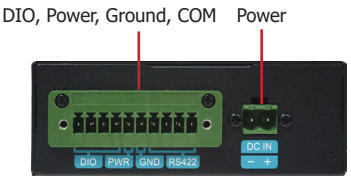
- ARM-based Fanless Embedded System
- 1GB/2GB DDR3L memory onboard
- 8GB/16GB eMMC for storage
- Designed for IoT gateway solutions
- Rich I/O ports: 2 GbE, 2 COM, 2 USB 2.0, 1 USB OTG

i.MX6 | eMMC | Yocto Linux | Android | Wide Temperature | Wide Voltage

Panel

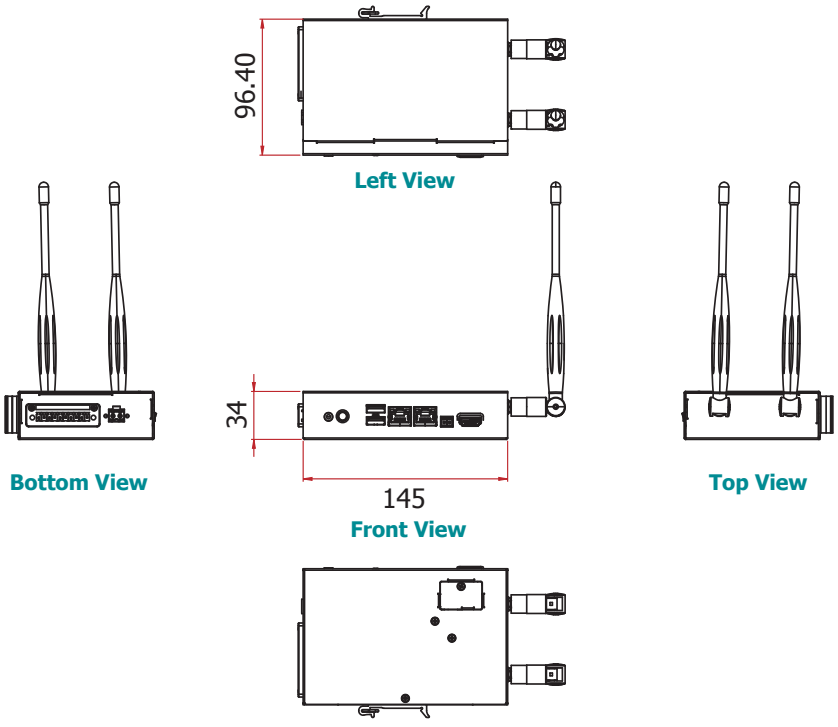


Front View



Bottom View

Dimensions



Left View

Bottom View

Front View

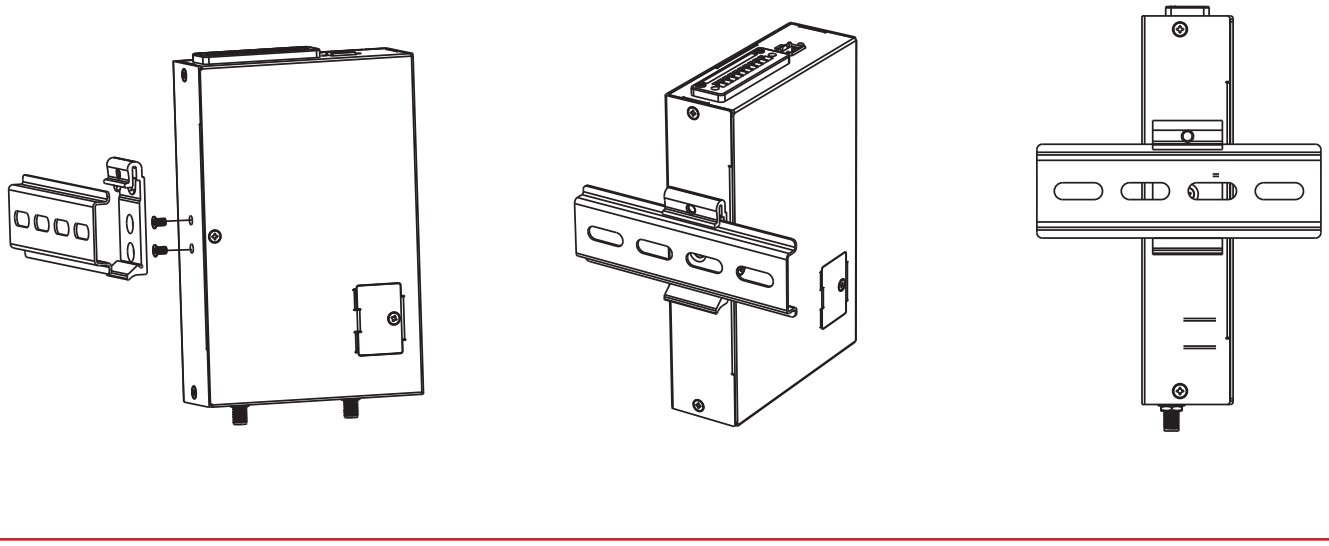
Top View

Right View

Specifications

SYSTEM	**Processor**	NXP i.MX6 Series Processor NXP i.MX6 Cortex-A9 Dual Lite, 1.0GHz
	Memory	1GB/2GB SDRAM Memory Down Single Channel DDR3L 1600MHz
GRAPHICS	**Display**	1 x HDMI HDMI: resolution up to 1920x1080 @ 60 Hz
	Single Display	HDMI
STORAGE		4MB NOR Flash 8GB/16GB eMMC
EXPANSION	**Interface**	1 x Full-size Mini PCIe (PCIe/USB) 1 x micro SD
ETHERNET	**Controller**	1 x ATHEROS Ethernet Controller AR8033-AL1B (10/100/1000Mbps) 1 x Microchip USB to Ethernet Controller LAN7500-ABZJ (10/100/1000Mbps)
LED	**Indicators**	1 x Status LED
FRONT I/O	**Ethernet**	2 x GbE (RJ-45)
	Serial	1 x RS-485 (2-pole terminal block)
	USB	2 x USB 2.0 (type A)
	Display	1 x HDMI
	Buttons	1 x Power Reset Button
BOTTOM I/O	**Serial**	1 x RS-422 (2-pole terminal block)
	DIO	1 x 4-bit DIO
TOP I/O	**Wi-Fi Antenna**	2 x Wi-Fi Module Antenna Hole
INTERNAL I/O	**USB**	1 x USB 2.0 1 x OTG USB
	UART	1 x UART for Console Port
WATCHDOG TIMER	**Output & Interval**	System Reset, Programmable via Software from 1 to 255 Seconds
POWER	**Type**	Wide Range 9~36V
	Connector	2-Pole Terminal Block
OS SUPPORT		Yocto 1.8 beta, Kernel 3.14.52
MECHANISM	**Construction**	Sheet Metal
	Mounting	DIN Rail Mount
	Dimensions (W x H x D)	145mm x 34mm x 96.4mm
	Weight	1.905kg
ENVIRONMENT	**Operating Temperature**	-20 to 60°C -40 to 70°C
	Storage Temperature	-40 to 85°C
	Relative Humidity	10 to 90% RH (non-condensing)
STANDARDS AND CERTIFICATIONS	**Shock**	Operating: 3G, 11ms Non-Operating: 5G, 11ms
	Vibration	Operating: Random 5~500Hz, IEC68-2-64 (3G) Non-Operating: Sine 10~500Hz, IEC68-2-6 (3G)

DIN Rail Mounting



Ordering Information

Model Name	Part Number	Description
EC900-FS6DL	750-EC9000-000G	EC900-FS6DL, Fanless, NXP IMX6DL 1GB Memory, 8GB eMMC, 2 COM, 2 USB, HDMI, Yocto Linux, -20 to 60°C, RoHS
EC900-FS6DL	750-EC9000-100G	EC900-FS6DL, Fanless, NXP IMX6DL 4GB Memory, 16GB eMMC, 2 COM, 2 USB, HDMI, Android, -20 to 60°C, RoHS
EC900-FS6DL	750-EC9000-200G	EC900-FS6DL, Fanless, NXP IMX6DL 2GB Memory, 16GB eMMC, 2 COM, 2 USB, HDMI, Yocto Linux, -20 to 60°C, RoHS
EC900-FS6DL	750-EC9000-300G	EC900-FS6DL, FANLESS, NXP IMX6DL 1GB memory, 8GB eMMC, 2COM, 2USB, HDMI, F/G SYSTEM, AP12356, Yocto Linux, -20 to 70C, ROHS

Optional Items

Optional Items	Part Number	Description
Wi-Fi + BT	761-AP1235-000G	WiFi/BT Kit, including: • One WiFI 802.11 abgn/ac +Bluetooth 4.2, Half Mini-PCIe Module, Ampak AP12356 • Two internal SMA cable 200mm length, • One Mini PCIe Bracket • Four Screw
Power Cord	785-PWRD	Power Cord, Standards (USA/EUR/CH), 1.8m, RoHS
Power Adapter	671-102001-000G	20W, 24V, 0 to 40°C, RoHS
	671-102501-000G	25W, 24V, -30 to 70°C, RoHS
LTE Module	612-RYR204-000G	LTE CAT1, mini-PCIe Module with SIM holder, U-Blox LARA-R204-02B-02, RYR2040, RoHS
	612-BG96MA-000G	LTE CATM1, mini-PCIe Module with SIM holder, Quectel BG96MA-MINIPCIE-S, RoHS

785-XXX is a group number instead of a unique part number. Please contact your regional sales representative if you need more information.

Packing List

- 1 EC900-FS6 system unit
- 1 10-Pole Terminal Block for RS-422/4-bit DIO
- 1 2-Pole Terminal Block for RS-485
- 1 2-Pole Terminal Block for Power Input
- 1 DIN Rail Bracket/Screw Pack
- 1 Quick Installation Guide

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