



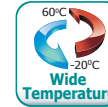
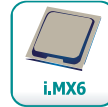
# EC900-FS6

NXP



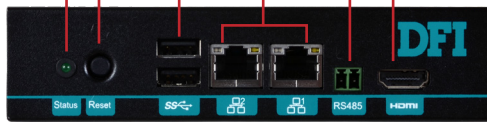
### ► Features

- 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



### ► Panel

Status LED Reset USB 2.0 LAN 1~2 COM HDMI



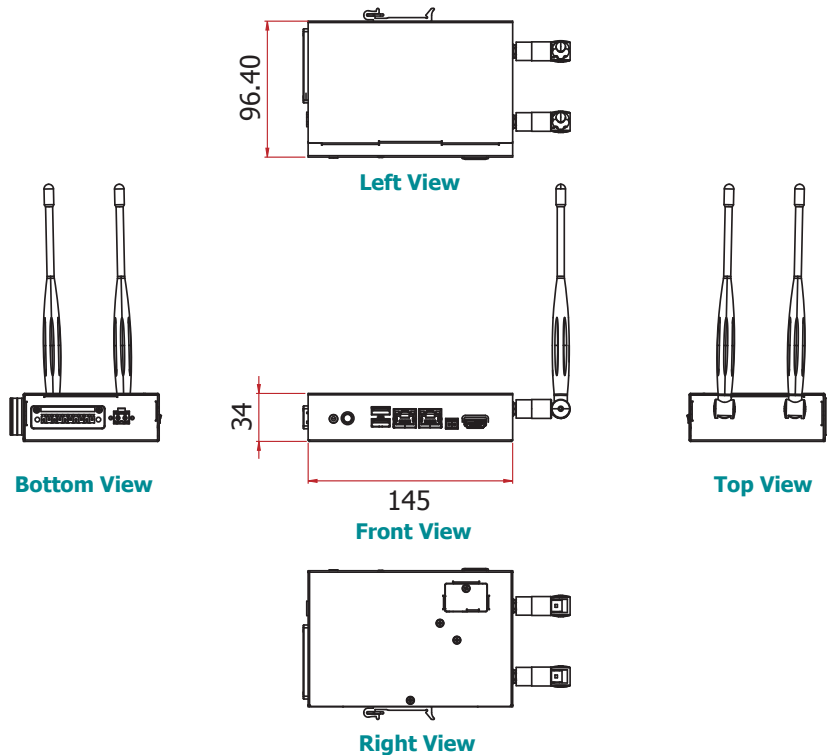
Front View

DIO, Power, Ground, COM Power



Bottom View

### ► Dimensions



## ► Specifications

<b>SYSTEM</b>	<b>Processor</b>	NXP i.MX6 Series Processor NXP i.MX6 Cortex-A9 Dual Lite, 1.0GHz	
	<b>Memory</b>	1GB/2GB SDRAM Memory Down	Single Channel DDR3L 1600MHz
<b>GRAPHICS</b>	<b>Display</b>	1 x HDMI HDMI: resolution up to 1920x1080 @ 60 Hz	
	<b>Single Display</b>	HDMI	
<b>STORAGE</b>		4MB NOR Flash 8GB/16GB eMMC	
<b>EXPANSION</b>	<b>Interface</b>	1 x Full-size Mini PCIe (PCIe/USB) 1 x micro SD	
<b>ETHERNET</b>	<b>Controller</b>	1 x Atheros Ethernet Controller AR8033-AL1B (10/100/1000Mbps) 1 x Microchip USB to Ethernet Controller LAN7500-ABZJ (10/100/1000Mbps)	
<b>LED</b>	<b>Indicators</b>	1 x Status LED	
<b>FRONT I/O</b>	<b>Ethernet</b>	2 x GbE (RJ-45)	
	<b>Serial</b>	1 x RS-485 (2-pole terminal block)	
	<b>USB</b>	2 x USB 2.0 (type A)	
	<b>Display</b>	1 x HDMI	
	<b>Buttons</b>	1 x Power Reset Button	
<b>BOTTOM I/O</b>	<b>Serial</b>	1 x RS-422 (2-pole terminal block)	
	<b>DIO</b>	1 x 4-bit DIO	
<b>TOP I/O</b>	<b>Wi-Fi Antenna</b>	2 x Wi-Fi Module Antenna Hole	
<b>INTERNAL I/O</b>	<b>USB</b>	1 x USB 2.0 1 x OTG USB	
	<b>UART</b>	1 x UART for Console Port	
<b>WATCHDOG TIMER</b>	<b>Output &amp; Interval</b>	System Reset, Programmable via Software from 1 to 255 Seconds	
<b>POWER</b>	<b>Type</b>	Wide Range 9~36V	
	<b>Connector</b>	2-Pole Terminal Block	
<b>OS SUPPORT</b>		Yocto 1.8 beta, Kernel 3.14.52 Android 5.1 beta, Kernel 3.14.52	
<b>MECHANISM</b>	<b>Construction</b>	Sheet Metal	
	<b>Mounting</b>	DIN Rail Mount	
	<b>Dimensions (W x H x D)</b>	145mm x 34mm x 96.4mm	
	<b>Weight</b>	TBD	
<b>ENVIRONMENT</b>	<b>Operating Temperature</b>	-20 to 60°C	-40 to 70°C
	<b>Storage Temperature</b>	-40 to 85°C	
	<b>Relative Humidity</b>	10 to 90% RH (non-condensing)	
<b>STANDARDS AND CERTIFICATIONS</b>	<b>Shock</b>	Operating: 3G, 11ms Non-Operating: 5G, 11ms	
	<b>Vibration</b>	Operating: Random 5~500Hz, IEC68-2-64 (3G) Non-Operating: Sine 10~500Hz, IEC68-2-6 (3G)	



▶ **DIN Rail Mounting**

**Coming Soon**

### ► 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

### ► Optional Items

Optional Items	Part Number	Description
Wi-Fi + BT	761-AP1235-000G	Wi-Fi + BT Kit, RoHS
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

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
• 1 CD disk includes:
- Drivers / Manual