

# IFB122

Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, 2 COM, 2 LANs and DIO (2-in/1-out)

## Features

- RISC-based (i.MX 6UltraLite) processor 528 MHz
- 256MB DDR3 SDRAM onboard
- 4GB eMMC flash onboard
- 1 Mini Card slots (Wi-Fi or 3G/4G)
- 2 digital inputs and 1 digital output
- 9 ~ 48 VDC wide range power input with terminal block
- Embedded Linux operating system (Yocto)
- Fanless design
- Wide operating temperature range from -40°C to +70°C



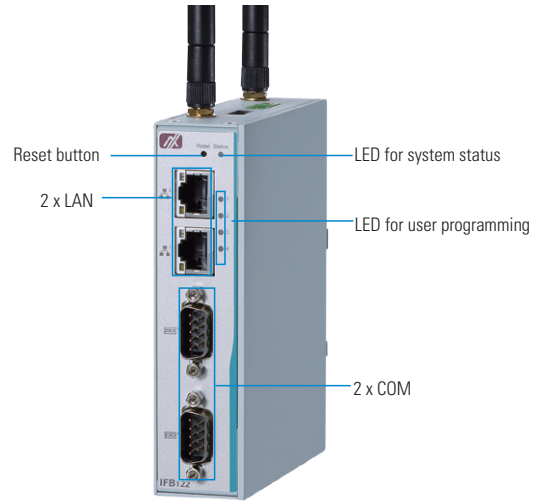
## Introduction

The IFB122 cost-effective DIN-rail fanless embedded system utilizes the low power RISC-based (i.MX6UL) processor and is designed to withstand temperatures ranging from -40°C to +70°C for using in extreme operating environment and industrial automation applications.

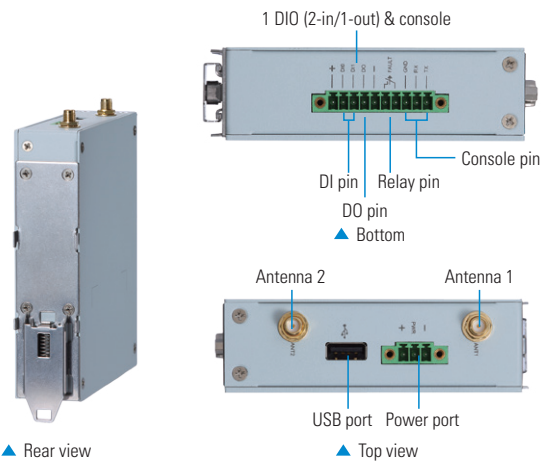
The IFB122 features two RS-232/422/485 serial ports, dual LANs, two digital input channels, one digital output channel, LED for user programming and one eMMC onboard 4 GB. Its vertical DIN-rail form factor makes it easy to install the system in a small cabinet. The ready-to-run IFB122 is specially designed for remote control/monitoring management applications like unmanned control room, industrial machine, automatic parking lot, traffic cabinet and more.

## Specifications

Construction	Extruded aluminum and heavy-duty steel, IP40		
CPU	NXP i.MX 6UL processor, ARM® Cortex®-A7 @ 528 MHz		
System Memory	1 x DDR3-1600 onboard, 256 MB		
System I/O Outlet	Serial Port	2 x RS-232/422/485	
	LAN	2 x 10/100 Mbps Ethernet Magnetic isolation protection 1.5KV	
	Relay	1 x Relay	
	USB	1 x USB 2.0	
	DIO	1 x DIO (2-in/1-out)	
		DI: Wet	
		DO: Wet	
		DI:	
	Digital input levels for wet contacts:		
	-Logic level 0: Close to GND		
-Logic level 1: +0.7 ~ +24 V max.			
DO:			
Output channels: 1, sink type			
Output current: max. 200 mA per channel			
On-state voltage: 24 VDC nominal, open			
Console Port	Yes	For user setting with debug	
EEPROM	1 x EEPROM (2 Kb)		
Wireless	1 x Mini Card slot		
	1 x SIM Card socket		



▲ Front view



Watchdog Timer	WDT 1: 0.5 to 128 sec. with a time resolution of 0.5 sec.
LEDs	1 x LED for power status
	1 x LED for reset status
	4 x LED (programming by client)
Storage	1 x eMMC 4GB flash onboard
Power Supply	9 ~ 48 VDC power input range
Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F)
Storage Temperature	-45°C ~ +85°C (-49°F ~ +185°F)
Humidity	10% ~ 95%
Vibration Endurance	5 Gms @ (10 ~ 150Hz random; operation)
Dimensions	31 mm (1.22") (W) x 100 mm (3.94") (D) x 125 mm (4.92") (H)
Weight (net/gross)	0.3 kg (0.66 lb)/0.44 kg (0.97 lb)
Installation	DIN-rail, wall mount
OS Linux	OS : Yocto 1.8.1 (Fido) Kernel: 3.14.52
Certificate	FCC Part 15
	Heavy Industrial CE

## Ordering Information

### Standard

IFB122-FL-DC Robust DIN-rail fanless embedded system with i.MX 6UL processor, 2 COM, 2 LANs and DIO (2-in/1-out) (-40°C ~ +70°C)

### Optional

Wall mount kit  
Wireless (3G/GPS or Wi-Fi) module

## Dimensions

