

# IFB122 NEW

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.MX6UltraLite) processor 528 MHz
- 256MB DDR3 SDRAM onboard
- 4GB eMMC flash onboard
- 1 Wireless (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



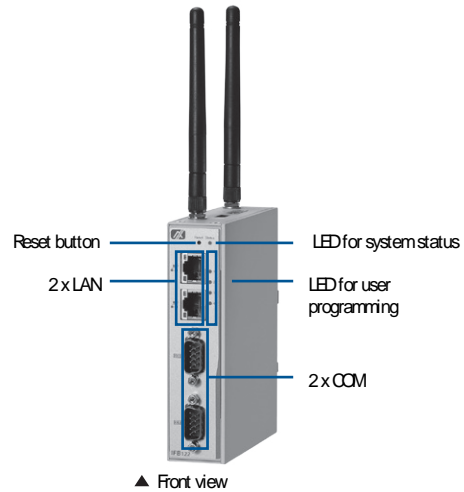
## Introduction

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.

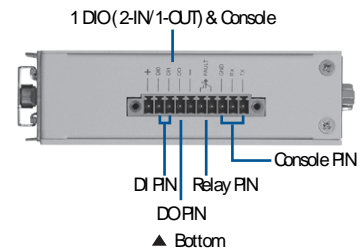
The IFB122 features two RS-232/422/485 serial ports, dual LANs, two digital input channels, one digital output channel, LED for user programming and one eMMC onboard 4 GB. Two power paths input minimize the risk of data loss in the event of a single power failure. Its vertical DIN-rail form factor makes 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, IP30	
CPU	Freescale i.MX6UL-2 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/Dry
		DO: Wet
		DI:
		Input channels: 2 source type
		Input voltage: 0 to 30 VDC digital input levels for dry contacts:
		-Logic level 0: close to GND
		-Logic level 1: open
	Digital input levels for wet contacts:	
	-Logic level 0: Close to GND	
	-Logic level 1: +0.7~+30 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 PCI Express Mini Card socket 1 x SIM card socket	



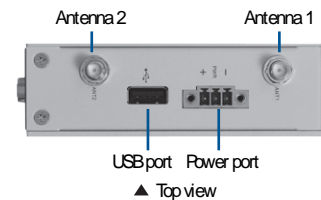
▲ Front view



▲ Bottom



▲ Rear view



▲ Top view

Watchdog Timer	WDT 1: 0.5 to 128 seconds with a time resolution of 0.5 seconds
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
Installation	DIN-rail
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	2G @ 5-500MHz, amplitude 0.35ms
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	Toolchain/Cross compiler: Yocto Kernel: 3.14.52 (with NXP and Axiomtek hardware modified patch)
Certificate	FCC Part 15 Heavy Industrial CE

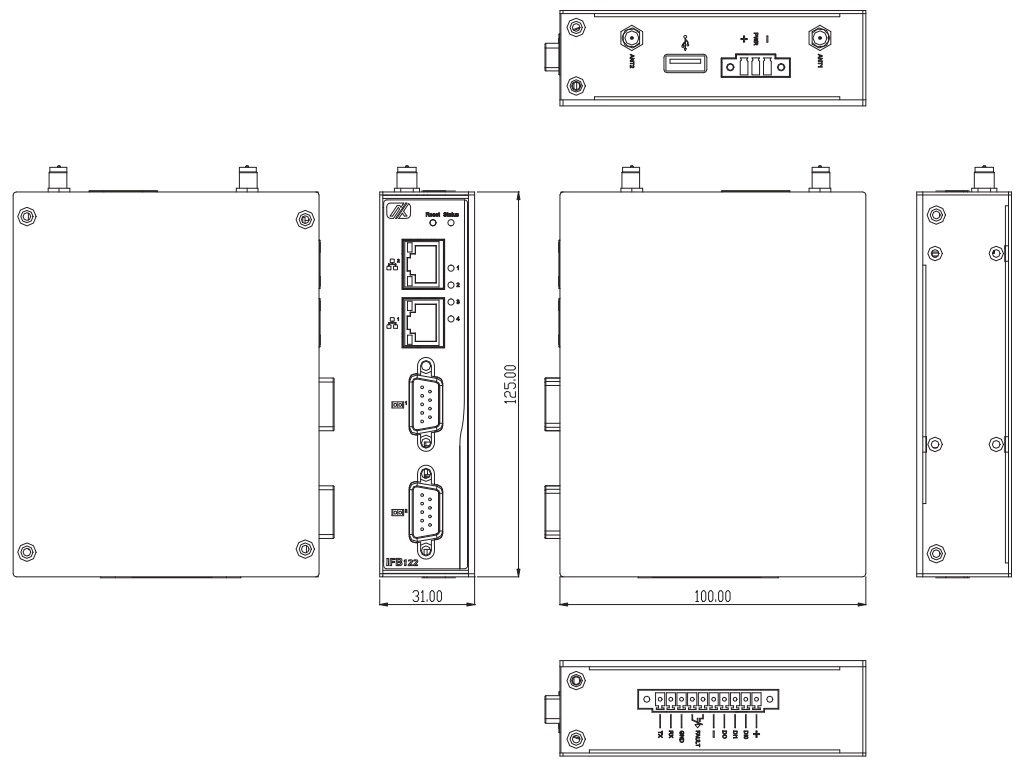
## Ordering Information

Standard	
IFB122-FL-DC	Robust DIN-rail fanless embedded system with i.MX 6UL processor, 2 COM, 2 LANs and DIO (2-IN 1-CUT) (-40°C to +70°C)

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

## Dimensions



\* All specifications and photos are subject to change without notice.