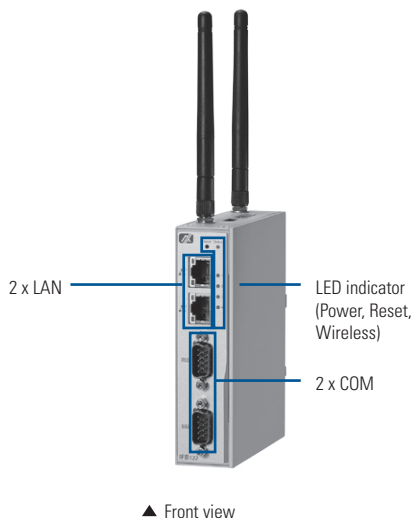# IFB122

Robust Din-rail Fanless Embedded System
with RISC-based i.MX6UL Processor
2 COM, 2 LANs and DIO (2-IN/1-OUT)

NEW

2 x LAN

LED indicator
(Power, Reset,
Wireless)

2 x COM

▲ Front view

| i.MX6UL-2 | Ext. Temp | IP30 | Fanless | Low Power |

Features

- RISC-based (i.MX6UltraLite) processor, @528 MHz
- 256 MB DDR3 SDRAM onboard
- 4 GB eMMC Flash onboard
- 1 Wireless (Wi-Fi or 3G/4G)
- Supports 2 digital inputs and 1 digital output
- Wide range DC power input (9 - 48V) with terminal block
- Ready-to-run embedded Linux operating system (Yocto)
- Fanless design
- Wide temperature operation of -40°C ~ +70°C

DIO (2-DI/1 -DO) & Console

▲ Bottom

2 x Antenna hole

▲ Rear view

USB 2.0

Power DC-in

▲ Top view

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.
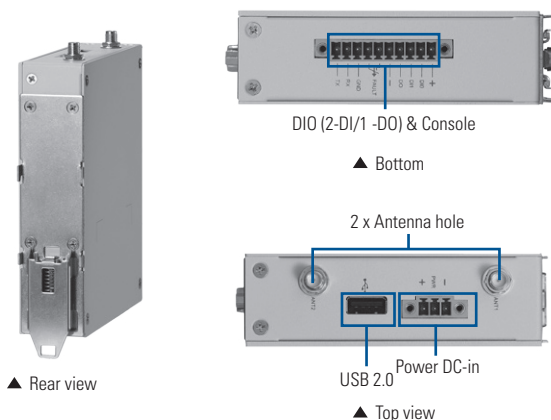
The IFB122 features two RS-232/422/485 serial ports, dual LANs, two digital input channels, one digital output channel, wireless signal strength indicator LEDs and one eMMC onboard 4 GB. Two power paths input minimize the risk of data loss in the event of a single power failure. Its vertical din-rail 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.

Hardware Specifications

Construction	Extruded aluminum and heavy-duty steel, IP30	
CPU	Freescale i.M6UL-2 processor, ARM® Cortex®-A7 @ 528 MHz	
System Memory	256 MB DDR3 Onboard	
System I/O Outlet	Serial Port	2 x RS-232/422/485
	LAN	2 x 10/100 Mbps
System I/O Outlet	Relay	1 x Relay
	USB	1 x USB 2.0
	DIO	1 x DIO (2-IN/ 1-OUT)
	Console Port	Yes For user setting with debug
	EEPROM	1 x EEPROM (2 Kb)
	Wireless	1 x Mini card socket 1 x SIM card socket

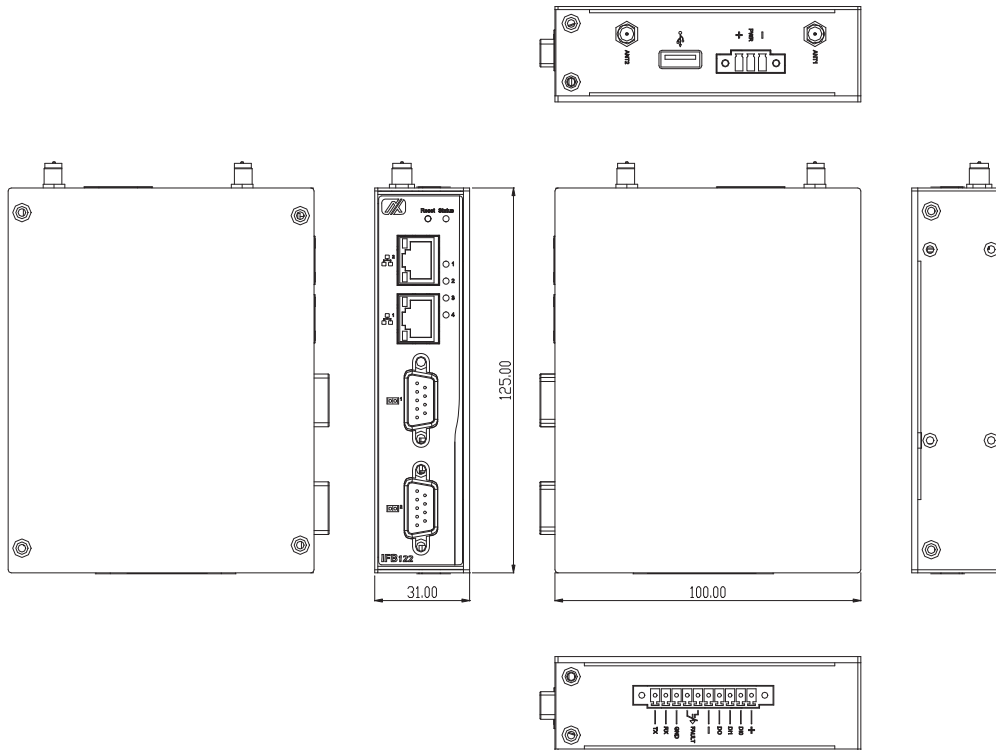| Watchdog Timer	WDT 1: one step is 1 sec, 255 levels
LEDs	1 x LED for Power Status 1 x LED for Reset Status 4 x LED (Programing by client)
Storage	1 x eMMC 4 GB Flash onboard
Installation	Din-rail
Power Supply	Power Input Range 9-48VDC
Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F)
Storage Temperature	-45°C ~ +85°C (-49°F ~ +185°F)
Humidity	10% ~ 95%
Vibration Endurance	2G @5~500MHz, amplitude 0.35ms
Dimensions	31 mm x 100 mm x 125 mm
EOS Support	Yocto (Linux kernel: 3.14.52)
Certification	FCC, CE

Updated August 3, 2016.* All specifications and photos are subject to change without notice.

Ordering Information

Standard

IFB122	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

Overview

Embedded
Systems

Embedded
Systems for
Transportation

3

Embedded
Field
Controllers

Industrial
Firewall

Digital Signage
Solutions

Embedded
MicroBoxes

Industrial
Barebone
Systems

Industrial
Chassis

Backplanes

Power
Supplies

Peripherals &
Accessories