# IFB112

Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, COM, CANbus, 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 PCI Express Mini Card slot (Wi-Fi or 3G/4G)
- 1 CAN Bus
- 2 digital inputs and 1 digital output
- 9 to 48 VDC wide range power input with terminal block
- Embedded Linux operating system (Yocto)
- Fanless and compact design
- Wide operating temperature range from -40°C to +70°C











#### Introduction

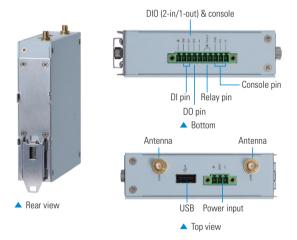
The IFB112 cost-effective DIN-rail fanless embedded system utilizes the low power RISCbased (i.MX 6UL) processor and is designed to withstand temperatures ranging from -40°C to +70°C for using in extreme operating environment and industrial automation applications.

The IFB112 features one RS-232/422/485 serial port, dual LAN, one CANbus, 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 IFB112 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 aluminun	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	1 x RS-232/422/485 (RS-232/422/485 interface select by software)				
	CAN Bus	1 x CAN 2.0 B (DB9 connector) Meets ISO 11898 standard Software control termination resistor 120 ohm can high speed up to 1Mbit/s for transmit/receive				
	LAN	2 x 10/100 Mbps Ethernet Magnetic isolation protection 1.5 KV				
	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 24 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 to +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				
	FFPROM	For user setting with debug  1 x EEPPROM (2 Kb)				
	Wireless	· '				
	vvireless	1 x PCI Express Mini Card slot (USB signal only) 1 x SIM card socket				





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 (programing by client)		
Storage	1 x eMMC 4GB flash onboard		
Power Supply	9 to 48VDC power input range		
Operating Temperature	-40°C to +70°C (-40°F to +158°F)		
Storage Temperature	-45°C to +85°C (-49°F to +185°F)		
Humidity	10% to 95%		
Vibration Endurance	3 Gms @ (10 to 150Hz sine wave; 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		
Certifications	FCC part 15, Heavy Industrial CE		

## **Ordering Information**

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IFB112-FL-DC (P/N: E26V112100) Robust DIN-rail fanless embedded system with i.MX 6UL processor, COM, CANbus, 2 LANs and DIO (2-in/1-out) (-40°C to +70°C)

#### Optional

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

## **Packing list**

- 1 x CD
- 4 x Screws
- 1 x Din-rail kit
- 1 x Console cable
- 1 x 3-pin terminal block for power port 1 x 10-pin terminal block for DIO port
- \* Specifications and certifications may vary based on different requirements.

## **Dimensions**

