IRU131 NEW

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

Features

- RISC-based (i.MX 6UltraLite) processor 528 MHz
- 512MB DDR3 SDRAM onboard
- 8GB eMMC flash onboard
- 2 Mini Card slots (Wi-Fi, 3G/4G or LoRa)
- 9 ~ 48 VDC wide range power input with terminal block
- Embedded Linux operating system (Yocto)
- Wide operating temperature range from -40°C to +70°C

6 LED (for wireless and DIO status)
USB port
LAN port
COM port
DIO
Device ID

i.MX6 UL | Ext. Temp | IP40 | Fanless | Low Power

Console/COM switch
4 antenna hole
Power/UPS DI port
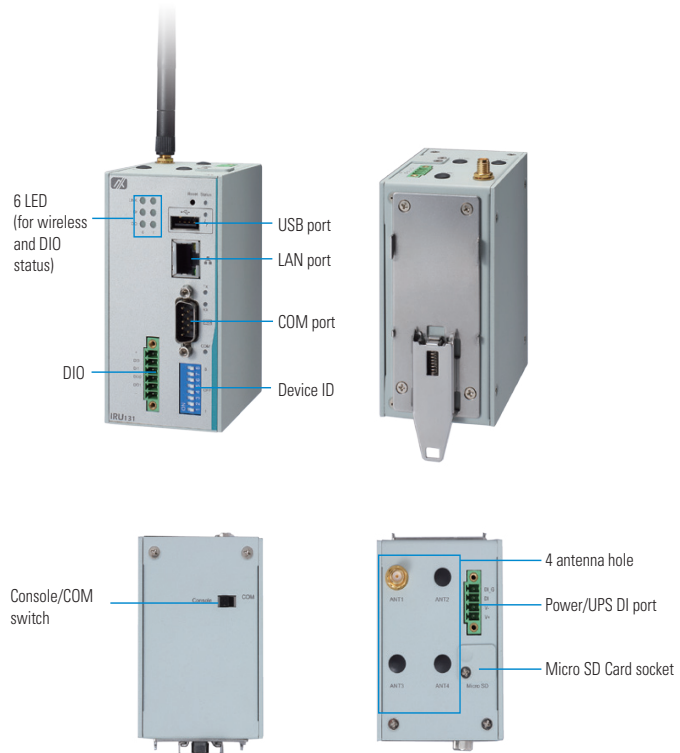Micro SD Card socket

Introduction

The IRU131 DIN-rail fanless embedded system utilizes a low power RISC based (i.MX6 UL) processor and is designed to withstand temperatures ranging from -40°C to +70°C for applications in extreme operating environment and industrial automation.

The IRU131 supports one RS-232/422/485 serial ports, one LAN port, two digital input channels, two digital output channels and two wireless sockets. Its vertical DIN-rail form factor makes it easy to install the system in a small cabinet. The ready-to-run IRU131 is specially designed for remote control/ monitoring management applications ideal in a unmanned control room, an industrial machine, an automatic parking lot, a traffic cabinet, just to name a few.

Specifications

Construction	Extruded aluminum and heavy-duty steel, IP40	
CPU	NXP i.MX 6 UL processor, ARM® Cortex®-A7 @ 528 MHz	
System Memory	1 x DDR3-1600 onboard, 512 MB	
System I/O Outlet	Serial Port	1 x RS-232/422/485 Magnetic isolation protection 2KV
	LAN	1 x 10/100 Mbps Ethernet Magnetic isolation protection 1.5KV
	USB	1 x USB 2.0
	DIO	1 x DIO (2-in/2-out) with isolation 2KV 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: +10V to +24V (DI to COM-) -Logic level 1: +3V max. DO: Output channels: 2, sink type Output current: max. 200 mA per channel On-state voltage: 24VDC nominal, open collector to 30V Optical isolation protection 2 KV

System I/O Outlet	Console Port	Yes For user setting with debug
	EEPROM	1 x EEPROM (2 Kb)
	Device ID	ID setting 0 ~ 255
	Wireless	2 x Mini Card slot 1 x SIM Card socket
Watchdog Timer	WDT 1: 0.5 to 128 sec. with a time resolution of 0.5 sec.	
RTC	Yes (RTC battery on board)	
LEDs	2 x LED for dual wireless status 2 x LED for DI status 2 x LED for DO status	
Storage	1 x eMMC 8GB 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	2 Gms @ (10 ~ 150Hz sine wave; operation)	
Dimensions	55 mm (2.16") (W) x 82 (3.23") mm (D) x 108 (4.25") (H)	
Weight (net/gross)	0.3 kg (0.66 lb)/0.50 kg (1.10 lb)	
Installation	DIN-rail	
Certificate	FCC Part 15 Heavy Industrial CE	

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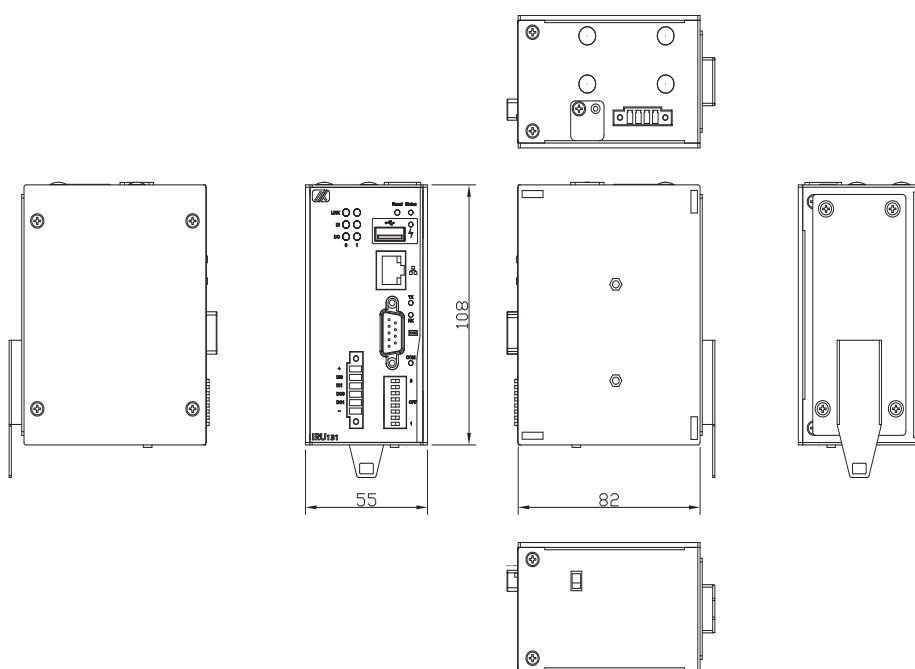
Ordering Information

Standard	
IRU131-FL-DC	Robust DIN-rail fanless embedded system with i.MX 6UL processor, COM, LAN, DIO (2-in/2-out) and 2 Mini Card slots (-40°C ~ +70°C)

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

Dimensions

55

108

82

150

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