

IRU152 NEW

Robust RISC-based DIN-rail Fanless Embedded System with i.MX 6UL Processor, COM, LAN, DIO (2-in/2-out), 4 AI Channels (16-bit, 250 kS/s) 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)
- 4 analog input channels (16-bit, 250 kS/s)
- 1 isolated COM port
- 1 isolated DIO (2-in/2-out)
- Embedded Linux operating system (Yocto)
- Wide operating temperature range from -40°C to +70°C



Introduction

The IRU152 DIN-rail fanless embedded system utilizes a low power RISC-based (i.MX 6UL) processor, one RS-232/422/485 serial port, one LAN, two digital input channels, two digital output channels, four analog input channels, designed to withstand temperatures ranging from -40°C to +70°C for applications in extreme operating environment and industrial automation.

The IRU152 is an Ethernet-based gateway supporting two wireless sockets (Wi-Fi, 3G/4G or LoRa), acting as a simple transparent interface between Ethernet-based network and Modbus devices such as meters, monitors, protective relays, trip units, motor controls and other devices that communicate using Modbus protocol.

Also, the IRU152 can record digital/analog signal of devices and control digital devices. It can offer a simple, scalable web-based monitoring solution providing real-time data views, on-board data logging/trending, and simple control over Modbus devices. Embedded math function such as RMS and FFT are used to make advanced diagrams. The ready-to-run IRU152 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	
	Analog Input	4 x Al (Isolation) channels: 4 Input Type Differential Input Range: (Software programmable) Unipolar: 0 ~ 10V, 0 ~ 5V Bipolar: ±10V, ±5V Resolution:16-bit Sampling Rate: 10 S/s to 250 kS/s FIFO Buffer Size: 2,048 samples Overvoltage Protection: ±55V Trigger source: Analog or digital (software selectable)	
	USB	1 x USB 2.0 (Type A)	
	DIO	1 x DIO (2-in/1-out) with Isolation 2KV DI: Wet/Dry DO: We	



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

FCC Part 15

Heavy Industrial CE

Certificate



Software Specifications

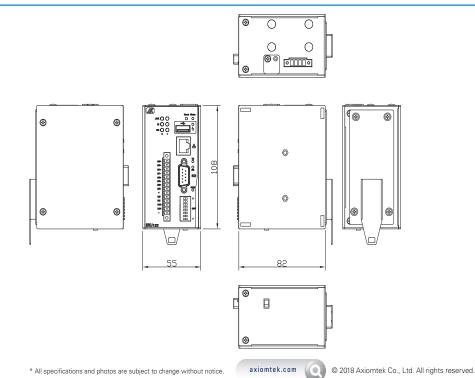
OS	Linux Kernel 3 14 52		
	Yocto FIDO 1.8		
Support Protocol Types	ICMP. TCP/IP, UDP, ARP, Telnet, SNMP, HTTP, HTTPS, SSL, SMTP, FTP, TFTP NTP, DNS, PPP, PPPOE, DHCP, NFS		
Support Software Types	Serial Server	Supports TCP Server/TCP Client/ UDP/Pair/VC Supports IP filter Supports 32 TCP connections	
	Modbus	Supports Modbus TCP/Modbus RTU/Modbus ASCII Supports TCP for multiple COM port	
Setting Configuration	SNMP	Supports V1/V2C/V3 Supports SNMP Private MIB Supports read/write	
	http /https	Supports SSL Supports Import/export Supports FW update	
	Remote Manager	Remote Log Email SNMP Supports Trap	
Alert Function	Yes		

Ordering Information

Standard	
IRU152-FL-DC	Robust DIN-rail fanless embedded system with i.MX 6UL processor, COM, LAN, DIO (2-in/2-out), 4 AI (16-bit, 250 kS/s) and 2 Mini Card slots (-40°C ~ +70°C)

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

Dimensions



148



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