



■ Features

- Intel® Atom™ X7-E3950 / N3350 SoC CPU (formerly Apollo Lake)
- Front access I/O ports: 2x COM, 2x CAN 2.0(optional for 2x COM), 4x DI/DO, 2x USB 3.0, 1x DB9 console, DP, SKU A/M/O: 4x GbE RJ45 (one pair Bypass), SKU B/N/P: 2x GbE RJ45 (one pair Bypass) & 2x SFP
- Onboard eMMC 64GB, 1x mSATA, optional 1x internal SATA 2.5" drive bay, TPM 2.0
- 1x M.2 B-Key w/ Nano SIM For LTE, 1x M.2 E-Key For Wi-Fi 5/6
- Wide operating temperature range: -40~70°C for industrial SKU A/B

■ Preliminary Specifications

Processor System

CPU	Intel® Atom™ X7-E3950 / N3350 onboard
Frequency	1.60 GHz / 1.10 GHz
Core Number	4 / 2
BIOS	AMI SPI Flash BIOS
Chipset	SoC

Memory

Technology	DDR3L, up to 1866 MT/s
Max. Capacity	8 GB
Socket	1 x 204-pin SODIMM

Graphic

Controller	Intel® HD Graphics 505/500
Display Interface	DP port

Ethernet

Controller	LAN1/2 by using Intel® i210-IT/AT with bypass; LAN3/LAN4 by using i210-IT/S/AT
Speed	10/100/1000 Mbps
Interface	SKU A/M/O: 4x GbE RJ45 (one pair Bypass), SKU B/N/P: 2x GbE RJ45 (one pair Bypass) & 2x SFP
Protection	1.5KV magnetic isolation protection

Storage

Type	Onboard eMMC 64GB, 1x SATA, 1x mSATA
Installation	1x SATA for 2.5" SSD/HDD, mSATA module

I/O

Serial Port	1x 2x5-pin Terminal block for isolated 2x RS232/422/485
CANbus	1x 2x5-pin Terminal block for isolated 2x CAN 2.0A/B, optional for isolated 2x RS232/422/485
DIO	1x 2x6-pin Terminal block for 4xDI (Dry/ PNP/NPN), -30~5V @ 7mA, Logical Value 0; 13~30V @ 7mA, Logical Value 1; 4x DO (Dry/Sink), typical 24V (up to 30V) @ 200mA

USB 3.0	2 x type A
Reset Button	Reset button on bottom side
LED	1x Power Status, 1x Storage Access, 2x SFP status, 1x LTE status, 4x LTE signal level, 2x4 Programmable
Expansion	1x M.2 B-Key w/ Nano SIM For LTE, 1x M.2 E-Key For Wifi 6

Watchdog Timer

Watchdog timer 256 level time interval system reset, software programmable

Power

Power Supply Voltage	Typical +12V/+24Vdc Input
Connector	Phoenix contact 2-pin connector with lock
Power Consumption (Idle)	TBD
Power Consumption (Full Load)	TBD
Power Adaptor	None

Environment

Operating Temperature	-40 ~ 70°C for Industrial SKU A/B; 0 ~ 50°C for commercial grade SKU M/N/O/P
Storage Temperature	-40 ~ 85°C
Relative Humidity	5% ~ 95%, non-condensing

Mechanical

Dimension (W x H x D)	160 x 156.5 x 81 mm (6.29" x 6.16" x 3.18")
Fanless	Yes
Construction	Aluminum + Steel
Weight	2kg (SKU B)
Mounting	DIN rail, optional for wall mount

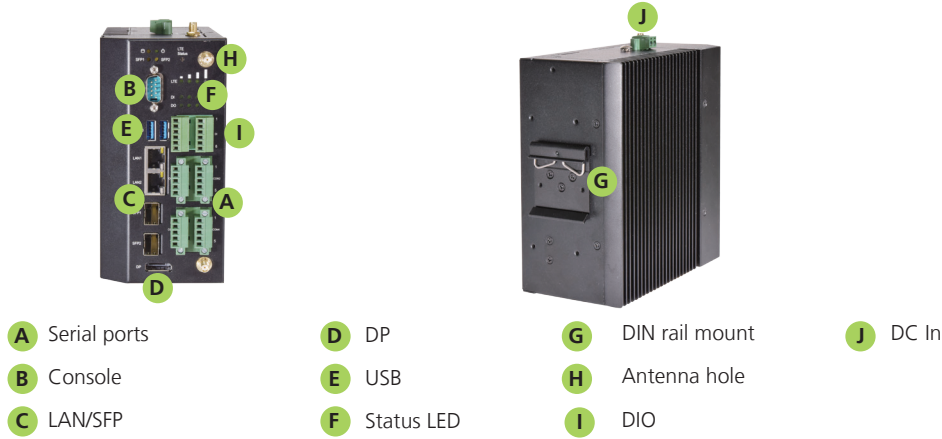
Driver Support

Microsoft Windows	Windows 10 IoT
Linux	Debian 10 or above

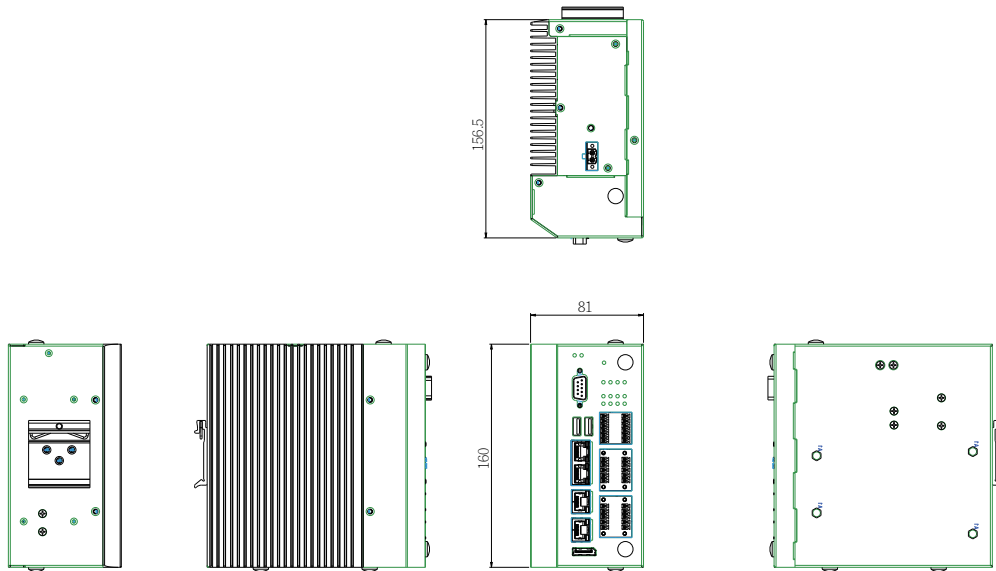
Certification

EMC	CE/FCC Class A, UL
Green compliance	RoHS

Product I/O View



Dimensions (WxHxD): 160 x 156.5 x 81 mm (6.29" x 6.16" x 3.18")



Ordering Information

IloT-I330A	Industrial Grade, Intel ATOM E3950 processor with 4x GbE RJ45 (one pair Bypass), 2x COM, 2x CAN, 4x DIO, 1x DB9 Console, 2x USB 3.0, 1x DP
IloT-I330B	Industrial Grade, Intel ATOM E3950 processor with 2x GbE RJ45 (one pair Bypass) & 2x GbE SFP, 2x COM, 2x CAN, 4x DIO, 1x DB9 Console, 2x USB 3.0, 1x DP
IloT-I330M	Commercial Grade, Intel Celeron N3350 processor with 4x GbE RJ45 (one pair Bypass), 2x COM, 2x CAN, 4x DIO, 1x DB9 Console, 2x USB 3.0, 1x DP
IloT-I330N	Commercial Grade, Intel Celeron N3350 processor with 2x GbE RJ45 (one pair Bypass) & 2x GbE SFP, 2x COM, 2x CAN, 4x DIO, 1x DB9 Console, 2x USB 3.0, 1x DP
IloT-I330O	Commercial Grade, Intel Celeron N3350 processor with 4x GbE RJ45 (one pair Bypass) , 1x DB9 Console, 2x USB 3.0, 1xDP
IloT-I330P	Commercial Grade, Intel Celeron N3350 processor with 2x GbE RJ45 (one pair Bypass) & 2x GbE SFP, 1x DB9 Console, 2x USB 3.0, 1x DP

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