

EAC Mini EACIL20-IoT Gateway with Expansion Modules

Connect Everything, Control Everywhere

EAC mini (EACIL20) is an industrial IoT gateway with low power consuming Intel® Apollo Lake processor and excellent expansion possibilities. Expansion module offers rich options from additional serial interfaces, CANBus, DIDO to Wi-Fi and 4G LTE. Wireless connectivity and all necessary connectors allow the EAC mini (EACIL20) to send data from manufacturing facilities directly to cloud server. Compact size and rich expansions make EAC mini to be suitable for IoT, smart factory and machine automation applications. The EACIL20 is Microsoft Azure Certified for IoT and AWS IoT Greengrass Certified.



Highlights

- Intel® Apollo Lake N3350 1.1 GHz
Intel® Apollo Lake N4200 1.1 GHz (Option)
- Fanless cooling system
- Compact size 100 x 70 x 31 mm
(w/o mounting bracket)
- Expansion module design
- Various mounting options: desk, wall, VESA, DIN-Rail
- Microsoft Azure Certified for IoT
- AWS IoT Greengrass Certified

Order information	
EACIL20-100-A432	Intel N3350, 4G RAM, 32GB eMMC, 2 x USB 3.0, 2 x GbE LAN, 1 x HDMI
EACIL20-101-A432	Intel N3350, 4G RAM, 32GB eMMC, 2 x USB 3.0, 2 x GbE LAN, 1 x HDMI, Wi-Fi+BT
EACIL20-102-A432	Intel N3350, 4G RAM, 32GB eMMC, 2 x USB 3.0, 2 x GbE LAN, 1 x HDMI, WWAN* <small>*With Micro SD card & Micro SIM card slot</small>
EACIL20-119-A432	Intel N3350, 4G RAM, 32GB eMMC, 2 x USB 3.0, 2 x GbE LAN, 1 x HDMI, mSATA expansion



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System Specifications

CPU	Intel® Apollo Lake N3350 1.1 GHz Intel® Apollo Lake N4200 1.1 GHz (Option)
Graphics Processor	Intel® HD Graphics
BIOS	Insyde UEFI
Watchdog Timer	programmable 256 levels, timer interval 1 to 255 sec.
System Memory	4GB LPDDR3 1866MHz

Storage

eMMC	Onboard 32 GB (default), up to 128GB
mSATA	up to 1TGB (Option)

Expansion

mPCIe	1 x Full-size mPCIe slot
USB Wafer	2 x USB Wafer

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USB	2 x USB3.0
Ethernet LAN	2 x Giga LAN RJ45 Connector
HDMI	1 x HDMI, supports 1920 x 1080@60 Hz
Power Input	Terminal Block / 2Pin

Buttons and LED Indicators

LED Indicator	1 x Power
Button	1 x Power Button 1 x Reset Button

Power Management

Power Supply	9~36V DC, 2-Pin Terminal Block
Grounding Protection	Chassis Grounding

Mechanical Specification

Dimensions	100 (W) x 70 (H) x 31(D) mm (One layer) 100 (W) x 70 (H) x 61(D) mm (Double layer)
Weight	0.4 kg (One layer), 0.5 kg (double layer)
Mounting	Desk Mounting (Default), Wall Mounting (Default), VESA Mounting (Optional), DIN-Rail Mounting (Optional),
Cooling System	Fanless
Enclosure	Metal Housing

Environment

Operating Temp.	0~55° C
Storage Temp.	-15~70° C
Operating Humidity	10~90% RH
Shock	Operating, IEC 60068-2-27
Vibration	Operating, IEC 60068-2-64
IP Rating	IP30

Standards and Certification

EMC	CE, FCC
IoT	Microsoft Azure Certified for IoT AWS IoT Greengrass Certified

Operating System (Optional)

OS	Windows® 10 IoT Enterprise Ubuntu 16.04
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Expansion Module (Optional)

EACWSLT-222	WWAN Expansion Board (Single SIM Slot)
EACWSLT-231	3-port RS232/422/485 w/ isolation
EACWSLT-232	16-Channel Digital I/O w/ isolation
EACWSLT-233	2-port CANBUS w/ isolation
EACWLSLT-234	3 -port USB 2.0
EACWLSLT-235	2-port RS232/422/485 w/ isolation
EACWLSLT-236	2-port Giga-LAN
EACWLSLT-237	WWAN Expansion Board (Dual SIM Slot)

Accessories

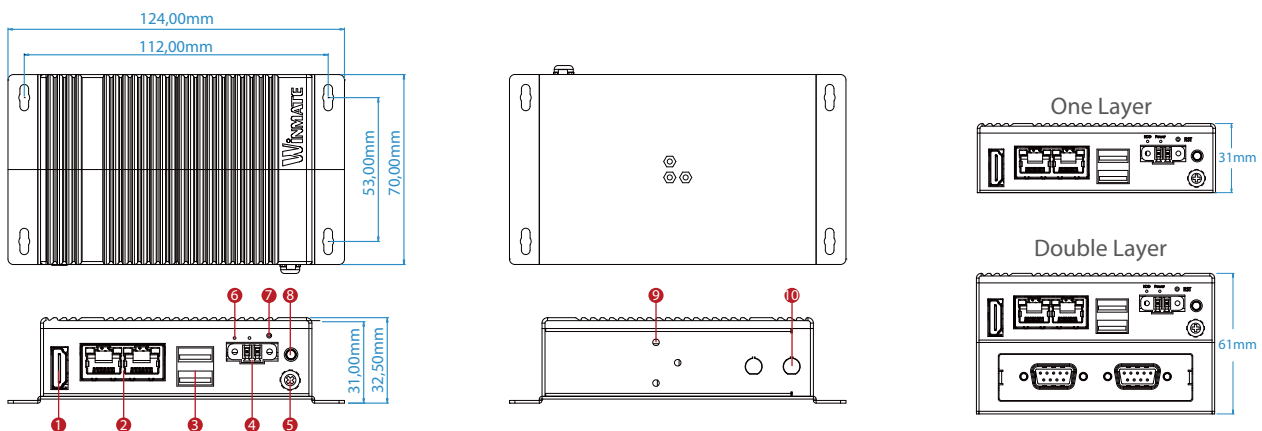
Standard Accessories

Quick Start Guide	915211101025
Driver CD	917111101000
Terminal Block 2 pin to 2.5Ø Female Adapter Cable	94J602G020K2
Open Wire Cable with terminal block 2 pin connector	94EL02X020E0
WLAN External Antenna (For EACIL20-101-A432)	397SM000000D
WWAN External Antenna (For EACIL20-102-A432)	397SM000000C

Optional Accessories

AC Adapter 12V/36W	922D036W12V6
VESA Mounting Kit	98K000A0009A
DIN Rail Mounting Kit	98K000A00099

Drawing



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|----------------------|---------------------------|
| 1. HDMI | 6. Power LED Indicator |
| 2. Giga LAN x 2 | 7. Reset Button |
| 3. USB 3.0 x 2 | 8. Power Button |
| 4. 9~36V DC | 9. DIN-Rail Mounting hole |
| 5. Chassis Grounding | 10. SMA (Antenna) |