

# EAC Mini EACIL67-IoT Gateway with Full IP67

Connect Everything, Control Everywhere

EAC Mini (EACIL67) is an industrial IoT gateway with low power consuming Intel® Apollo Lake N3350 processor and full IP67 design. Wireless connectivity and all necessary connectors allow the EAC Mini (EACIL67) to send data from manufacturing facilities directly to cloud server. Compact size and full IP67 protection from dust and against the effects of immersion in water make EAC Mini suitable for IoT, smart factory and machine automation applications both indoor and outdoor. The EACIL67 is Microsoft Azure Certified for IoT and AWS IoT Greengrass Certified.



## Highlights

- Intel® Apollo Lake N3350, 1.1 GHz
- Full IP67
- USB Type-C Port featuring Alt Mode: DP A/V output, USB Data, Power Delivery
- Fanless cooling system
- Compact size 100 x 115 x 31 mm (w/o mounting bracket)
- Various mounting options: desk, wall, VESA
- Suitable for smart factory and outdoor applications

## Order information

EACIL67-100-A464	Intel N3350, 4G RAM, 64GB eMMC, 1 x USB Type-C, 1 x USB Type-A, 2 x GbELAN,
EACIL67-101-A464	Intel N3350, 4G RAM, 64GB eMMC, 1 x USB Type-C, 1 x USB Type-A, 2 x GbELAN, Wi-Fi
EACIL67-104-A464	Intel N3350, 4G RAM, 64GB eMMC, 1 x USB Type-C, 1 x USB Type-A, 2 x GbELAN, CANBUS



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## System Specifications

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

## Storage

eMMC	Onboard 64GB (default), up to 128GB
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## Interface

USB	1 x Waterproof USB2.0 1 x Waterproof USB Type-C[Alt Mode] : -Display Port A/V output -USB data -Power Delivery up to 15W(5V/3A)
Ethernet	2 x Waterproof Giga LAN RJ45 Connector
Power Input	M12 Waterproof Connector

## Power Management

Power Input	9~36V DC
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## Mechanical Specifications

Dimensions	100 x 115 x 31 mm
Weight	1 kg
Mounting	Desk Mounting (Default), Wall Mounting (Default), VESA Mounting (Optional)
Cooling System	Fanless
Enclosure	Metal Housing

## Environment

Operating Temperature	-20~60°C
Storage Temperature	-30~70°C
Operating Humidity	10~90% RH (non-condensing)
Shock	Operating, IEC 60068-2-27
Vibration	Operating, IEC 60068-2-64
IP Rating	IP67

## Certificate

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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## Accessories

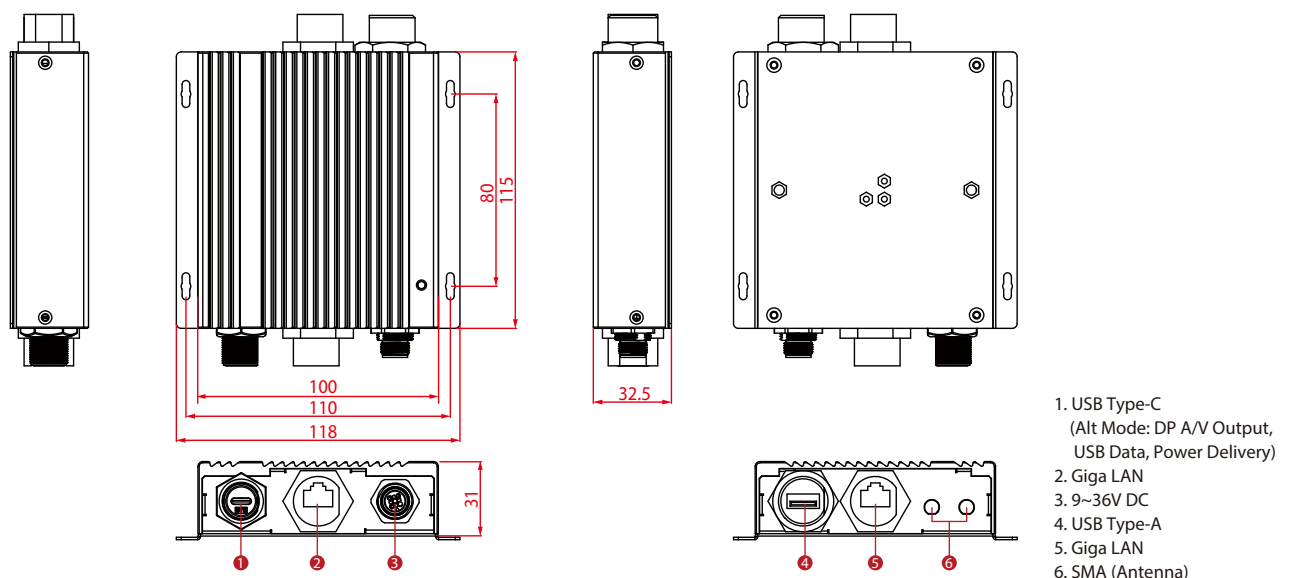
### Standard Accessories

	91711110100V
Quick Start Guide	91521110102T
Driver CD	94JL020120K0
M12 to Open Wire DC Cable	397SM0000003
WLAN External Antenna (For EACIL67-101-A464)	

### Optional Accessories

	98K000A000BJ
VESA Mount Kit	94EL030120K0
M12 to Open wire DC with CANBUS Cable	9480240240K2
Waterproof USB Type-C to Standard USB Type-C Cable	9480240240K8
Waterproof USB Type-C to Lockable USB Type-C Cable	9410080080KF
Waterproof RJ45 LAN to Standard RJ45 LAN Cable	9487048040P1
Waterproof USB Type-A male to Standard USB Type-A female Cable	

## Drawing

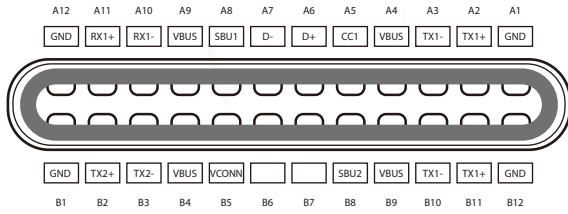


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## Pin Assignment of Cables

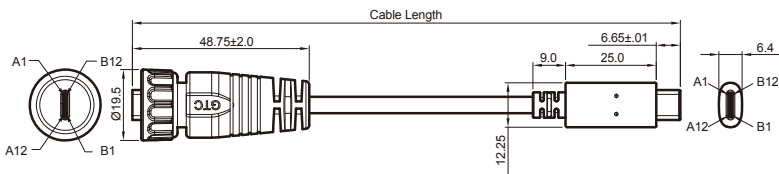
### USB Type-C



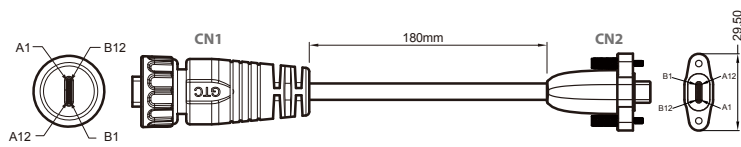
Pin No.	Symbols	Color
A1	GND	
A2	TX1+	Blue
A3	TX1-	White
A4	VBUS	Red
A5	CC1	Blue
A6	D+	Green
A7	D-	White
A8	SBU1	Red
A9	VBUS	Red
A10	RX2-	White
A11	RX2+	Orange
A12	GND	

Pin No.	Symbols	Color
B1	GND	
B2	TX2+	Purple
B3	TX2-	White
B4	VBUS	Red
B5	VCONN	Yellow
B6	NC	
B7	NC	
B8	SBU2	Black
B9	VBUS	Red
B10	RX1-	White
B11	RX1+	Yellow
B12	GND	

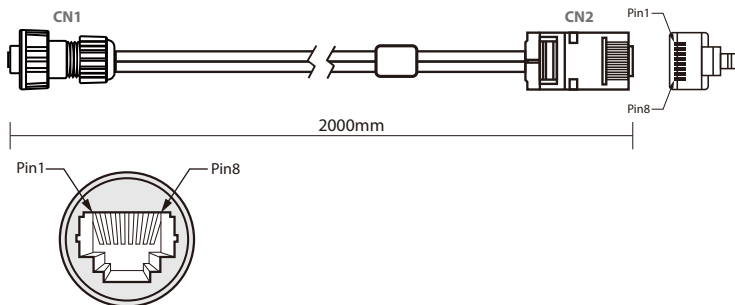
### Waterproof USB Type-C to Standard USB Type-C Cable



### Waterproof USB Type-C to Lockable USB Type-C Cable

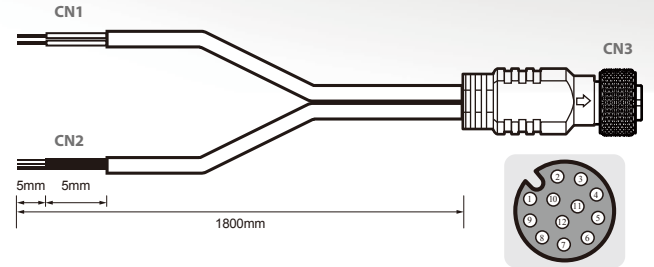


### LAN Cable



Plug	Wire Color	Conn.	
1	Orange / White	1	Twist
2	Orange	2	
3	Green / White	3	Twist
4	Blue	4	
5	Blue / White	5	Twist
6	Green	6	
7	Brown / White	7	Twist
8	Brown	8	

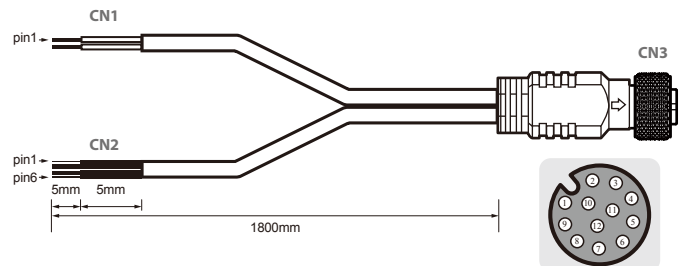
### M12 to Open wire DC Cable



Pin No.	Symbols	Color
CN1-1	VCC	Undefined
CN1-2	VCC	Undefined
CN1-3	GND	Undefined
CN1-4	GND	Undefined
CN2-1	GND	Undefined
CN1-8	NC	
CN1-9	NC	
CN1-10	NC	
CN2-2	Reset	Undefined
CN2-3	Clear CMOS	Undefined

Pin No.	Symbols	Color
CN3-1	VCC	Undefined
CN3-2	VCC	Undefined
CN3-3	VCC	Undefined
CN3-4	GND	Undefined
CN3-5	GND	Undefined
CN3-6	GND	Undefined
CN3-7	GND	Undefined
CN3-8	NC	
CN3-9	NC	
CN3-10	NC	
CN3-11	Reset	Undefined
CN3-12	Clear CMOS	Undefined

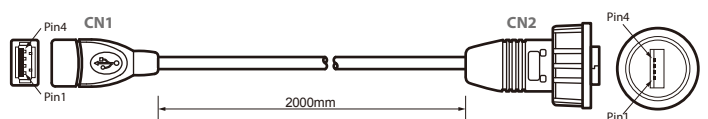
### M12 to Open wire DC with CANBUS Cable



Pin No.	Symbols	Color
CN1-1	VCC	Undefined
CN1-2	VCC	Undefined
CN1-3	GND	Undefined
CN1-4	GND	Undefined
CN2-1	GND	Undefined
CN2-4	CAN H	Undefined
CN2-5	CAN L	Undefined
CN2-6	CAN_GND	Undefined
CN2-2	Reset	Undefined
CN2-3	Clear CMOS	Undefined

Pin No.	Symbols	Color
CN3-1	VCC	Undefined
CN3-2	VCC	Undefined
CN3-3	VCC	Undefined
CN3-4	GND	Undefined
CN3-5	GND	Undefined
CN3-6	GND	Undefined
CN3-7	GND	Undefined
CN3-8	CAN H	Undefined
CN3-9	CAN L	Undefined
CN3-10	CAN_GND	Undefined
CN3-11	Reset	Undefined
CN3-12	Clear CMOS	Undefined

### Single-side water proof USB type A cable to female



Pin No.	Symbols	Color
CN1-1	VCC	Red
CN1-2	D-	White
CN1-3	D+	Green
CN1-4	GND	Black

Pin No.	Symbols	Color
CN2-1	VCC	Red
CN2-2	D-	White
CN2-3	D+	Green
CN2-4	GND	Black