

Full IP65 EAC BOX PC

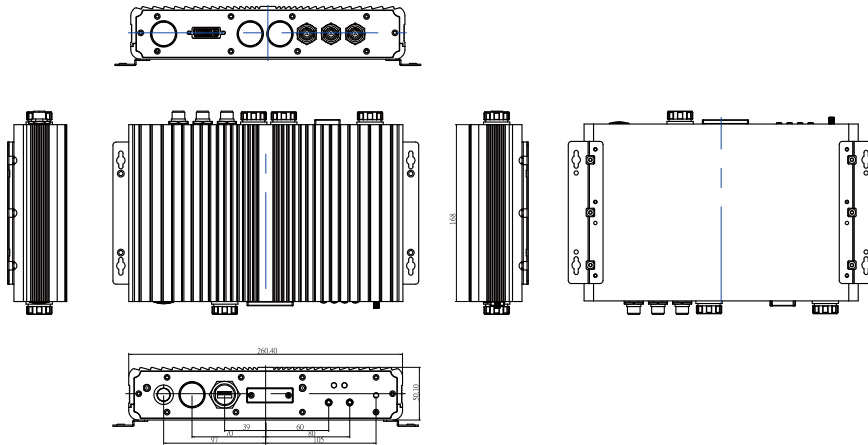
Full IP65 / NEMA4 BOX PC

F65EAC-ID31

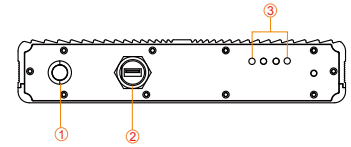


Features:

- Intel® Atom Dual-Core D2550 1.86GHz
- Intel® NM10 Express Chipset
- Aluminum Profile with Fin
- Ultra compact size with Fanless Design
- Support mSATA SSD and micro SD card
- One mini-PCIe socket expansion
- 9~36V DC with isolation

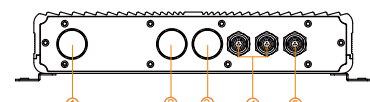


Front side



1. Power Button
2. USB 2.0 TypeA-Female
3. LED Indicators (Power/HDD/LAN)

Rear side



1. Power
2. VGA
3. 2 x USB2.0
4. 2 x LAN
5. 1 x COM

Optional

- Antenna
- GPIO
- 1 x COM
- SIM/micro SD Card Socket
- DVI or HDMI (either one)
- Line-in
- Line-out

* Note: this is a simplified drawing and some components are not marked in detail. Please contact our sales representative if you need further product information.

System Specification

Processor	: Intel ATOM Dual-Core D2550 1.86GHz
BIOS	: AMI 16Mbit Flash
System Chipset	: Intel® NM10 Express Chipset
System Memory	: 1 x SO-DIMM DDR3L 1066 Max 4GB
Ethernet Controller	: Dual Broadcom BCM57780 Ethernet
Expansion Slot	: 1 x Mini PCIe slot (for 3G or WiFi module)
Watchdog timer	: 256 Levels

Mechanical and Power

Dimensions (L x W x H)	: 260.4mm x 168mm x 50mm
Construction	: Aluminum housing
Power Input	: 9~36V DC with isolation
Mounting	: Wall-mount / Desktop

Note: All Specifications are subject to change without prior notice!
Optional two sides waterproof connector for needing to connect Winmate stainless series Panel PC or Display

I/O Connectors

Front Side I/O :	1 x Power Button
	1 x USB2.0 TypeA-Female
	1 x micro SD card socket (Optional)
	1 x SIM card socket (Optional)
	1 x 8 Channels GPIO (Optional)
	1 x Line-in / Line-out (Optional)
Back Side I/O :	1 x Power Input (9~36V DC)
	2 x USB2.0
	1 x RS232
	2 x LAN
	1 x DVI or HDMI (either one)(Optional)
	1 x VGA
	1 x RS232 (Optional)

Environment Considerations

Operating Temperature	: 0 to 50 deg.C
	-20 to 60 deg.C (By Request)
Operating Humidity	: 5% to 95% (non-condensing)
Anti-Vibration	: 5Hz~500Hz / 1Grms/3 Axis
Anti Shock	: 15G, 11ms duration

Ordering Information (Default)

Storage	: 32GB mSATA SSD MLC (Default)
Memory	: 2GB SO-DIMM DDR3 L 1600(Default)
OS Support	: Windows 7/XP Embedded
Power Input	: 9~36V DC with isolation

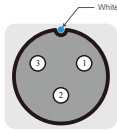
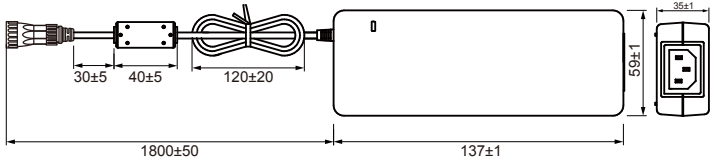
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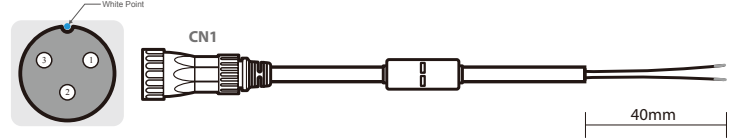
Standard

Power Cable with Adaptor



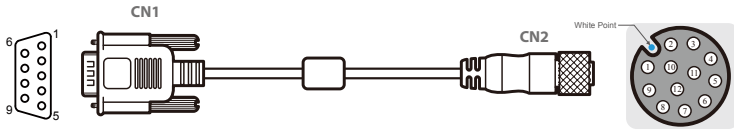
Pin No.	Symbols	Color
CN1-3	GND	Black
CN1-2	shield	
CN1-1	VCC	White

DC Power Cable



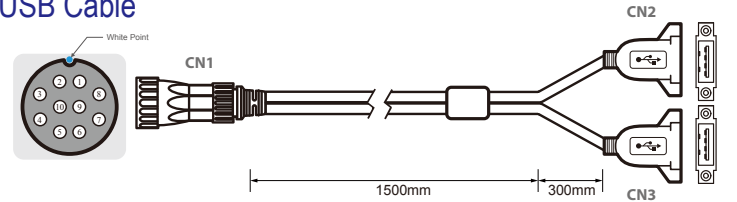
Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	VCC	Red	↔	Open	VCC	Red
CN1-3	GND	Black	↔	Open	GND	Black
CN1-2	Shield				Shield	

Serial Cable



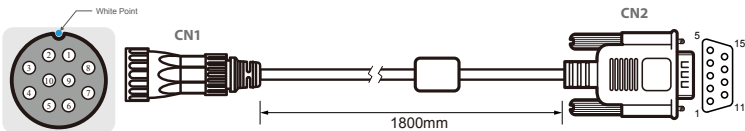
Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	DCD-CON2	Green	↔	CN2-1	DCD-CON2	Green
CN1-6	DSR-CON2	Brown	↔	CN2-2	DSR-CON2	Brown
CN1-2	RXD-CON2	Red	↔	CN2-3	RXD-CON2	Red
CN1-7	RTS-CON2	Orange	↔	CN2-4	RTS-CON2	Orange
CN1-3	TXD-CON2	Blue	↔	CN2-5	TXD-CON2	Blue
CN1-8	CTS-CON2	White	↔	CN2-6	CTS-CON2	White
CN1-4	DTR-CON2	Purple	↔	CN2-7	DTR-CON2	Purple
CN1-9	RI-CON2	Yellow	↔	CN2-8	RI-CON2	Yellow
CN1-5	GND-CON2	Black	↔	CN2-9	GND-CON2	Black

USB Cable



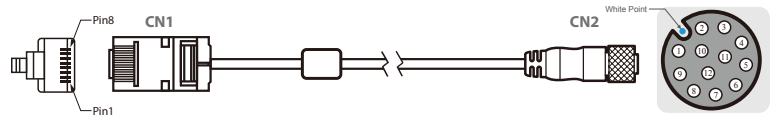
Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	VCC	RED	↔	CN2-1	VCC	RED
CN1-2	VCC	RED	↔	CN3-1	VCC	RED
CN1-3	D-	WHITE	↔	CN2-2	D-	WHITE
CN1-4	D-	WHITE	↔	CN3-2	D-	WHITE
CN1-5	D+	GREEN	↔	CN2-3	D+	GREEN
CN1-6	D+	GREEN	↔	CN3-3	D+	GREEN
CN1-7	GND	BLACK	↔	CN2-4	GND	BLACK
CN1-8	GND	BLACK	↔	CN3-4	GND	BLACK
CN1-9	Braid		↔	Braid connect to the housing		

VGA Cable



CN1				CN2		
Pin No.	Symbols	Color		Pin No.	Symbols	Color
1	R	Red	↔	1	R	Red
2	R-GND	Black	↔	6	R-GIND	Black
3	G	Green	↔	2	G	Green
4	G-GND	Black	↔	7	G-GND	Black
5	B	Blue	↔	3	B	Blue
6	B-GND	Black	↔	8	B-GND	Black
7	SDA	Yellow	↔	12	SDA	Yellow
8	HS	Orange	↔	13	HS	Orange
9	VS	White	↔	14	VS	White
10	SCL	Brown	↔	15	SCL	Brown
				4	HS-GDN	
				5	NC	
				9	NC	
				10	NC	
				11	VS-GDN	

LAN Cable



Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1		white/orange	↔	CN2-1		white/orange
CN1-2		orange	↔	CN2-2		orange
CN1-3		white/green	↔	CN2-3		white/green
CN1-4		blue	↔	CN2-4		blue
CN1-5		white/blue	↔	CN2-5		white/blue
CN1-6		green	↔	CN2-6		green
CN1-7		white/brown	↔	CN2-7		white/brown
CN1-8		brown	↔	CN2-8		brown
CN1-9	NC		↔			
CN1-10	NC					

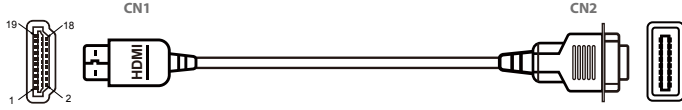
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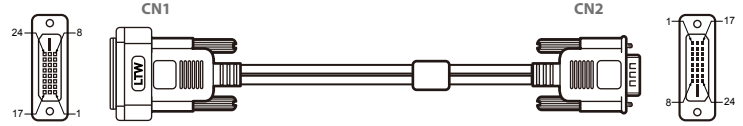
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Optional

HDMI Cable



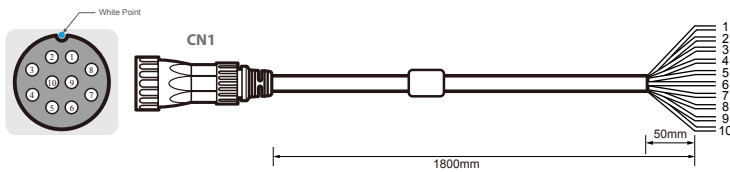
DVI Cable



Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	TMDS DATA2+	Green	↔	CN2-1	TMDS DATA2+	Green
CN1-2	Shield	Black	↔	CN2-2	Shield	Black
CN1-3	TMDS DATA2-	White	↔	CN2-3	TMDS DATA2-	White
CN1-4	TMDS DATA1+	Blue	↔	CN2-4	TMDS DATA1+	Blue
CN1-5	Shield	Black	↔	CN2-5	Shield	Black
CN1-6	TMDS DATA1-	White	↔	CN2-6	TMDS DATA1-	White
CN1-7	TMDS DATA0+	Yellow	↔	CN2-7	TMDS DATA0+	Yellow
CN1-8	Shield	Black	↔	CN2-8	Shield	Black
CN1-9	TMDS DATA0-	White	↔	CN2-9	TMDS DATA0-	White
CN1-10	TMDS Clock+	Orange	↔	CN2-10	TMDS Clock+	Orange
CN1-11	Shield	Black	↔	CN2-11	Shield	Black
CN1-12	TMDS Clock-	White	↔	CN2-12	TMDS Clock-	White
CN1-15	SCL	White	↔	CN2-15	SCL	White
CN1-16	SDA	Pink	↔	CN2-16	SDA	Pink
CN1-18	VCC 5V	Red	↔	CN2-18	VCC 5V	Red
CN1-19	Hot Plug Detect	Purple	↔	CN2-19	Hot Plug Detect	Purple

CN1				CN2		
Pin No.	Symbol			Pin No.	Symbol	
CN1-1	TMDS Data2-	↔	↔	CN2-1	TMDS Data2-	↔
CN1-2	TMDS Data2+	↔	↔	CN2-2	TMDS Data2+	↔
CN1-3	TMDS Data2 Shield	↔	↔	CN2-3	TMDS Data2 Shield	↔
CN1-4	NC			CN2-4	NC	
CN1-5	NC			CN2-5	NC	
CN1-6	DDC Clock	↔	↔	CN2-6	DDC Clock	↔
CN1-7	DDC Data	↔	↔	CN2-7	DDC Data	↔
CN1-8	NC			CN2-8	NC	
CN1-9	TMDS Data 1-	↔	↔	CN2-9	TMDS Data 1-	↔
CN1-10	TMDS Data 1+	↔	↔	CN2-10	TMDS Data 1+	↔
CN1-11	TMDS Data 1 Shield	↔	↔	CN2-11	TMDS Data 1 Shield	↔
CN1-12	NC			CN2-12	NC	
CN1-13	NC			CN2-13	NC	
CN1-14	+5V Power	↔	↔	CN2-14	+5V Power	↔
CN1-15	Ground	↔	↔	CN2-15	Ground	↔
CN1-16	Hot Plug Detect	↔	↔	CN2-16	Hot Plug Detect	↔
CN1-17	TMDS Data 0-	↔	↔	CN2-17	TMDS Data 0-	↔
CN1-18	TMDS Data 0+	↔	↔	CN2-18	TMDS Data 0+	↔
CN1-19	TMDS Data 0 Shield	↔	↔	CN2-19	TMDS Data 0 Shield	↔
CN1-20	NC			CN2-20	NC	
CN1-21	NC			CN2-21	NC	
CN1-22	TMDS Data Clock Shield	↔	↔	CN2-22	TMDS Data Clock Shield	↔
CN1-23	TMDS Clock+	↔	↔	CN2-23	TMDS Clock+	↔
CN1-24	TMDS Clock-	↔	↔	CN2-24	TMDS Clock-	↔

GPIO Cable



Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	GDN	Black	↔	CN2-1	GDN	Black
CN1-2	5V	Brown	↔	CN2-2	5V	Brown
CN1-3	OUT3	Red	↔	CN2-3	OUT3	Red
CN1-4	OUT1	Orange	↔	CN2-4	OUT1	Orange
CN1-5	OUT2	Yellow	↔	CN2-5	OUT2	Yellow
CN1-6	OUT0	Green	↔	CN2-6	OUT0	Green
CN1-7	INT3	Blue	↔	CN2-7	INT3	Blue
CN1-8	INT1	Purple	↔	CN2-8	INT1	Purple
CN1-9	INT2	Gray	↔	CN2-9	INT2	Gray
CN1-10	INT0	White	↔	CN2-10	INT0	White



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