

EACIL20-MR

Intel® Pentium® N4200 Marine Computer



KEY FEATURES

- Intel® Apollo Lake N4200 Computer
- 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

INTRODUCTION

Winmate Marine Computer Series offers high-performance computing solutions tailored for maritime environments. Powered by advanced processors, including Intel® Tiger Lake, Elkhart Lake, and Apollo Lake, these systems deliver reliable performance for navigation, vessel monitoring, and industrial automation. Designed with features such as multi-video output, isolation power protection, and support for NMEA 0183, they ensure seamless integration with marine systems. Certified with DNVGL-CG-0339 and meeting IEC60945 standards, the series guarantees durability in harsh conditions. With compact designs, fanless cooling, and versatile mounting options, these marine computers are ideal for a wide range of marine and industrial applications.

SPECIFICATIONS

System Specification

WLAN	Support (Optional)	BT	Support (Optional)
WWAN	WWAN (Optional)	Expansion Port	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 EACWSLT-234 3 -port USB 2.0 EACWSLT-235 2-port RS232/422/485 w/ isolation EACWSLT-236 2-port Giga-LAN EACWSLT-237 WWAN Expansion Board (Dual SIM Slot)
Processor	Intel Pentium N4200 1.1GHz (up to 2.5GHz)	Memory	4GB LPDDR4 2400 MHz
Storage	eMMC: Onboard 32 GB (Default) eMMC: Onboard 64 GB (Optional) eMMC: Onboard 128 GB (Optional) mSATA SSD 128GB (Optional)	Ethernet controller	2 x Intel® Ethernet Controller
Security	TPM 2.0	Operating System	Windows 10 IoT Enterprise (64 bit) (Optional)

Mechanical

Dimension	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 mount & Wall mount (Default) VESA mount (Optional) DIN-Rail mount (Optional)	Enclosure	Metal
Cooling System	Fanless Design		

Environment

Operating Humidity	30% to 90% RH, Non-Condensing	Operating Temperature	0°C to 55°C
Storage Temperature	-15°C to 70°C	Shock	Operating, IEC 60068-2-27
Vibration	Operating, IEC 60068-2-64	IP rating	IP30

Certification

Certification	CE, FCC DNVGL-CG-0339
---------------	--------------------------

IO Ports

USB Port	2 x USB3.2 Gen1x1 (Type-A)	Video	1 x HDMI 1.4 (Optional)
Expansion Port	mPCIe: 1 x Full-size mPCIe slot USB Wafer : 2 x USB Wafer	LAN	2 x Giga LAN RJ45 Connector
Indicator	1 x LED Indicator for power	mini PCIe	1 x Mini PCIe

Control

Button	1 x Power Button 1 x Reset Button
--------	--------------------------------------

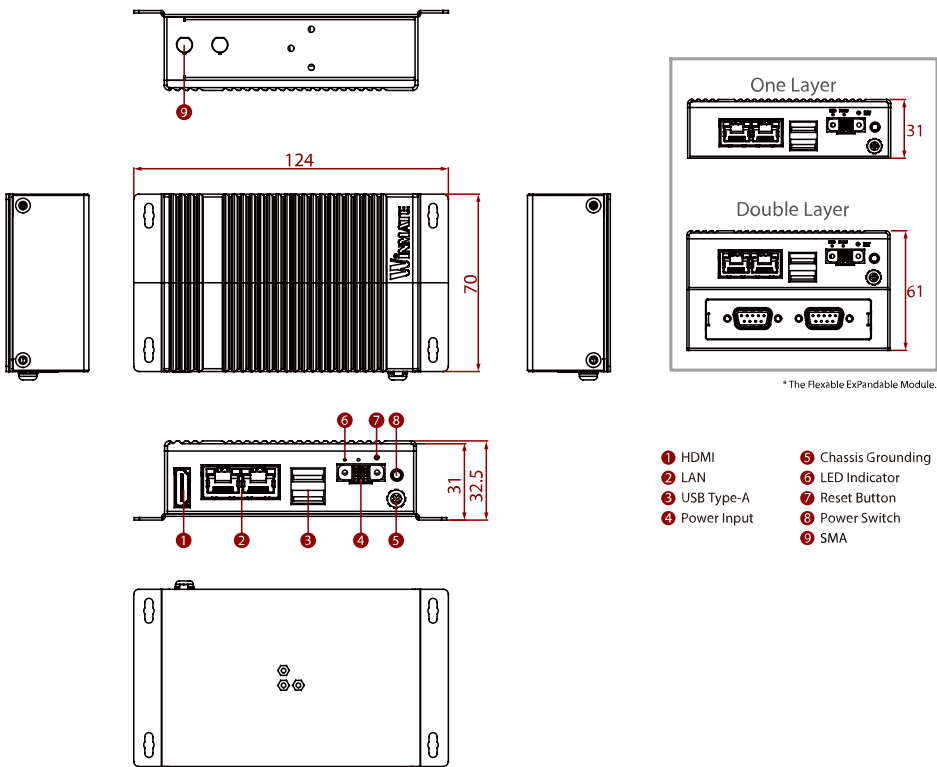
Accessory

Accessory	Quick Start Guide Driver CD AC to DC Adapter 12V/36W Terminal Block 2 pin to 2.5Ø Female Adapter Cable Open Wire Cable with terminal block 2 pin connector WLAN External Antenna (For WLAN sku) WWAN External Antenna (For WWAN sku) (Default) VESA Mounting Kit (Optional) DIN Rail Mounting Kit (Optional)
-----------	--

Power

Power Rating	9V to 36V DC, 2-Pin Terminal Block	Consumption	25W (Typical)
--------------	------------------------------------	-------------	---------------

DIMENSIONS UNIT:MM



NOTE

1. This is a simplified drawing and some components are not marked in detail.
2. Please contact our sales representative if you need further product information.
3. All specifications are subject to change without prior notice.
4. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.