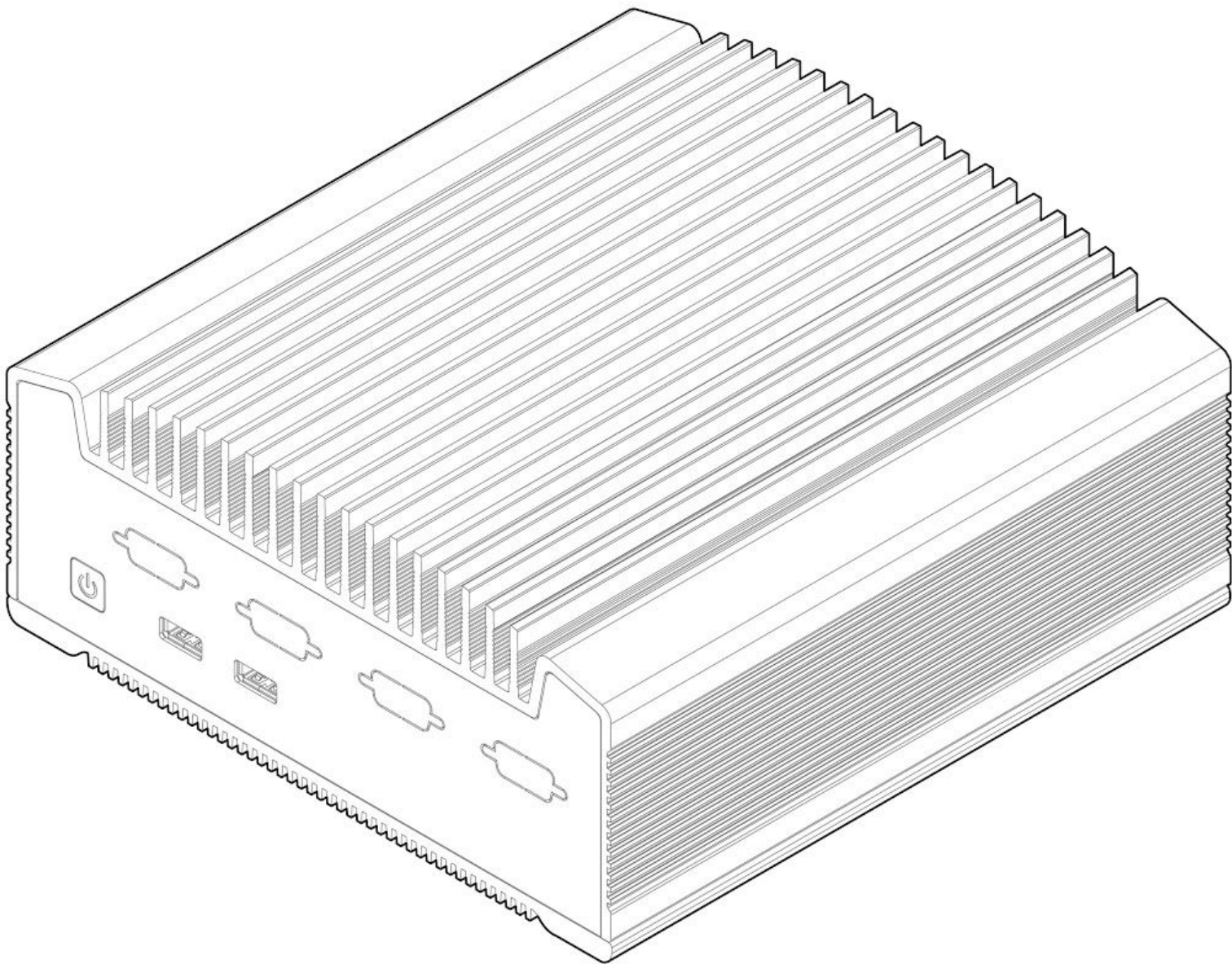


ML510G-50 Product Manual

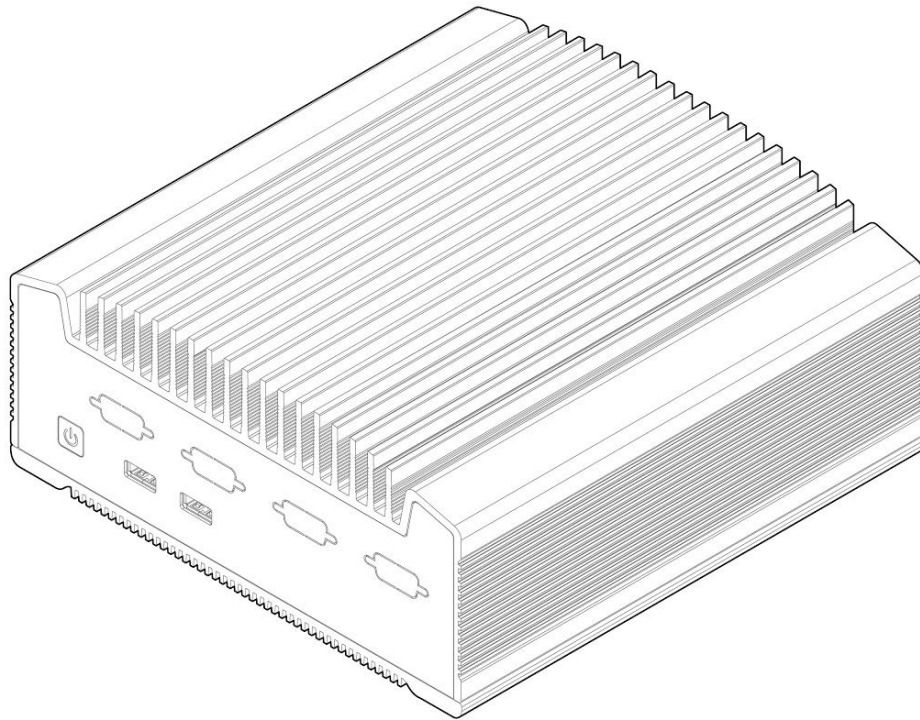


Revision History

Revision History	Date
First release of ML510G-50 manual	08/20/2019

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1 - System Overview



1.1 - Accessories

If you purchased additional items such as mounting brackets, power supplies or antennas, they will be located in the system box or within the outer shipping carton.

All drivers and product guides can be found on the corresponding product page. For more information on accessories and additional features, visit the ML510G-50 page at:

US: <https://www.onlogic.com/ml510g-50/>

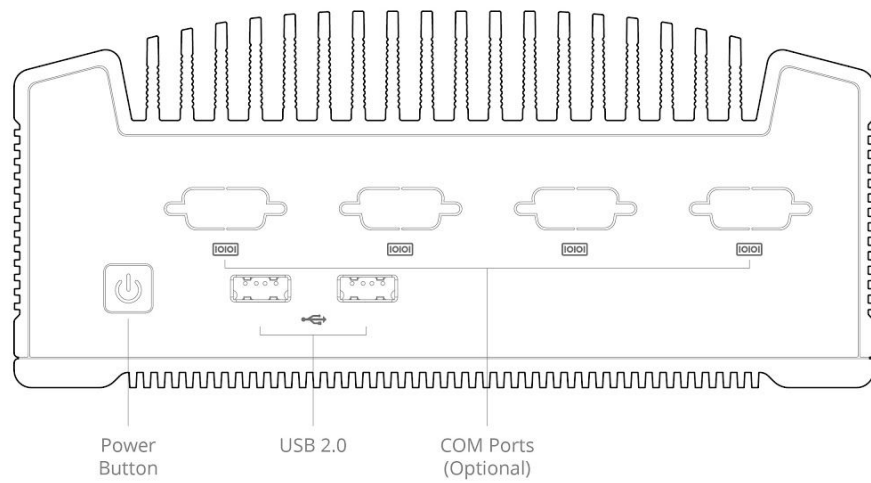
EU: <https://www.onlogic.com/eu-en/ml510g-50/>

1.2 - Product Specifications

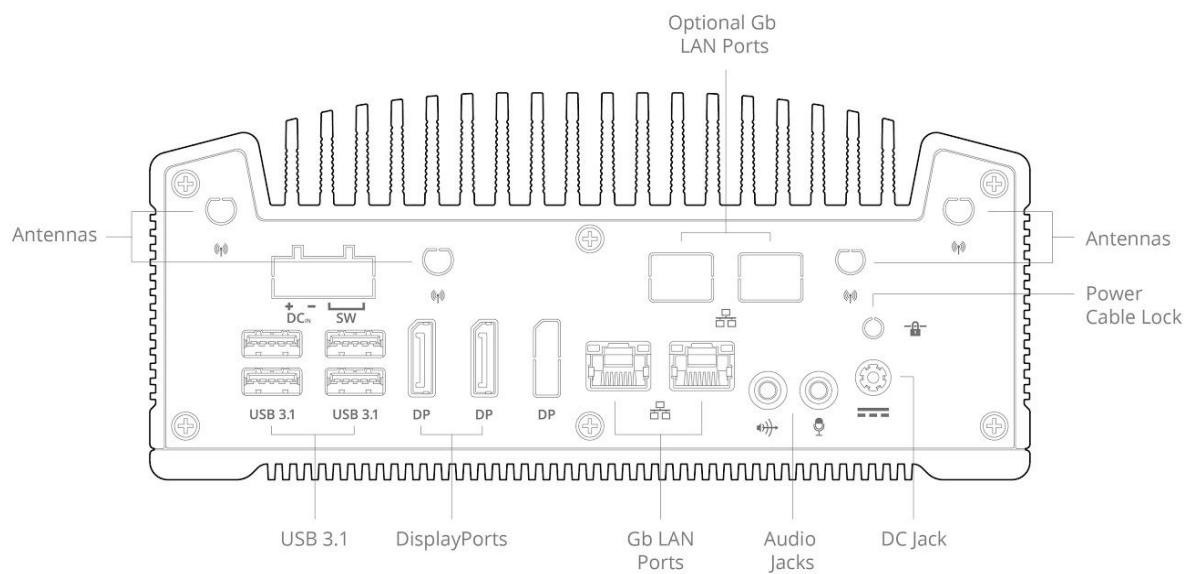
	ML510G-50
Processor	Up to Intel Core i7
Memory Type	2 DDR4 SO-DIMM (non-ECC)
Memory Capacity	32 GB
Chipset	Intel H310
Integrated Graphics	Intel UHD Graphics 610/630
Front I/O	2 USB 2.0 ports 4 COM ports (1 RS232/422/485, 3 RS232) (optional) 1 Power button
Back I/O	2 DisplayPort connectors (max resolution: 4096x2304 @ 60 Hz) 2 Gb LAN ports (+2 optional Gb LAN) 4 USB 3.1 ports 2 Audio jacks (line-out; mic-in) 4 Antenna punchouts
Expansion & Storage	1 M.2 2230 E-key (PCIe x1, USB 2.0) 1 M.2 2260 M-key (PCIe x1) 1 M.2 2280 M-key (SATA)
System Monitoring	TPM (optional) Watchdog Timer
Operating Systems	Windows 10, Ubuntu 18.04
LAN Controllers	Intel I219-V Realtek RTL8111H
Voltage Input	19 VDC
Dimensions	197 x 86.2 x 202 mm (7.76 x 3.41 x 7.95 in)
Mounting	Wall, DIN, VESA
Temperature	Operating Temperature: 0°C ~ 40°C or 0°C ~ 50°C with some power adapter configurations
Regulatory Information	2011/65/EU (RoHS 2 Directive) CE EN 55022 EN 55024 EN 55032 EN 60950-1 FCC 47 CFR Part 15

1.3 - Exterior Features and Dimensions

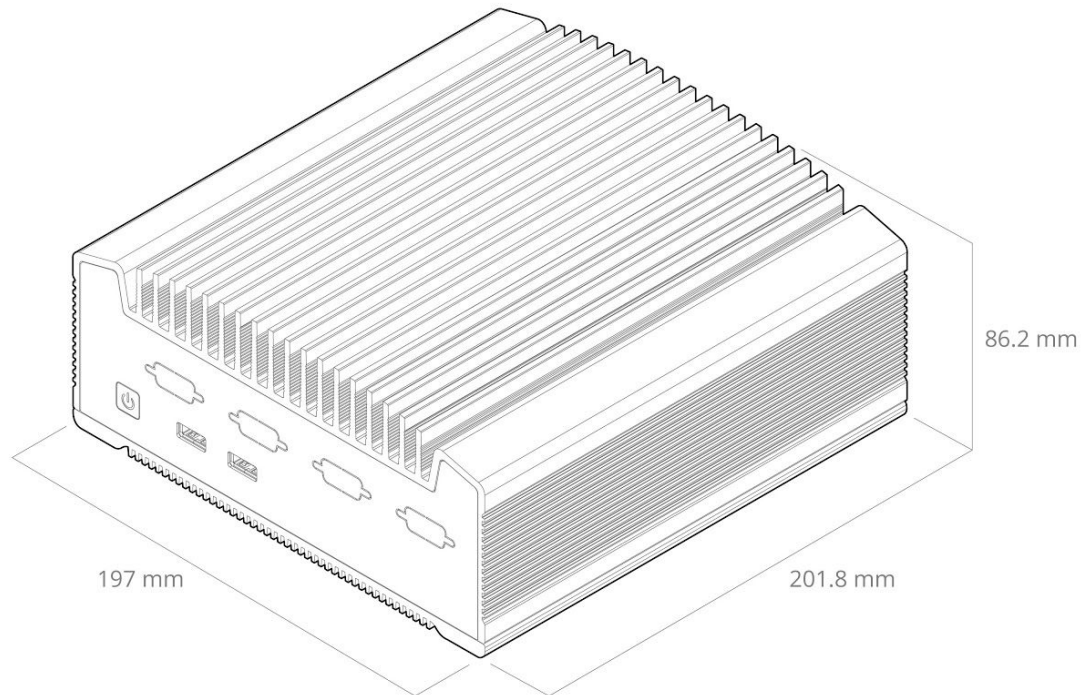
1.3.1 - Front I/O



1.3.2 - Back I/O

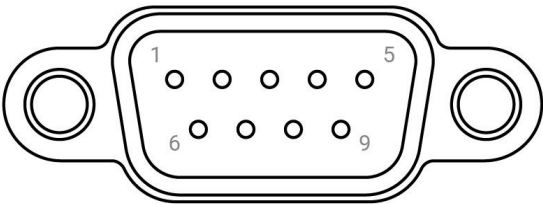


1.3.3 - ML510G-50 Dimensions



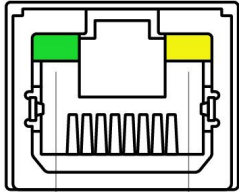
2 - I/O Definitions

2.1 - Serial Ports

	Pin	RS-232	RS-422	RS-485
	1	DCD	TX-	TX-/RX-
	2	RX	RX+	NC
	3	TX	TX+	TX+/RX+
	4	DTR	RX-	NC
	5	GND	GND	GND
	6	DSR	NC	NC
	7	RTS	NC	NC
	8	CTS	NC	NC
	9	Power	Power	Power

NC = Not Connected

2.2 - LAN

 Link LED (Green) Speed LED (Green/Yellow)	LED	Color	State	Condition
	Link	-	Off	LAN link is not established
		Green	On	LAN link is established
			Blinking	LAN activity occurring
	Speed	-	Off	10 Mb/s data rate
		Yellow	On	100 Mb/s data rate
		Green	On	1000 Mb/s data rate

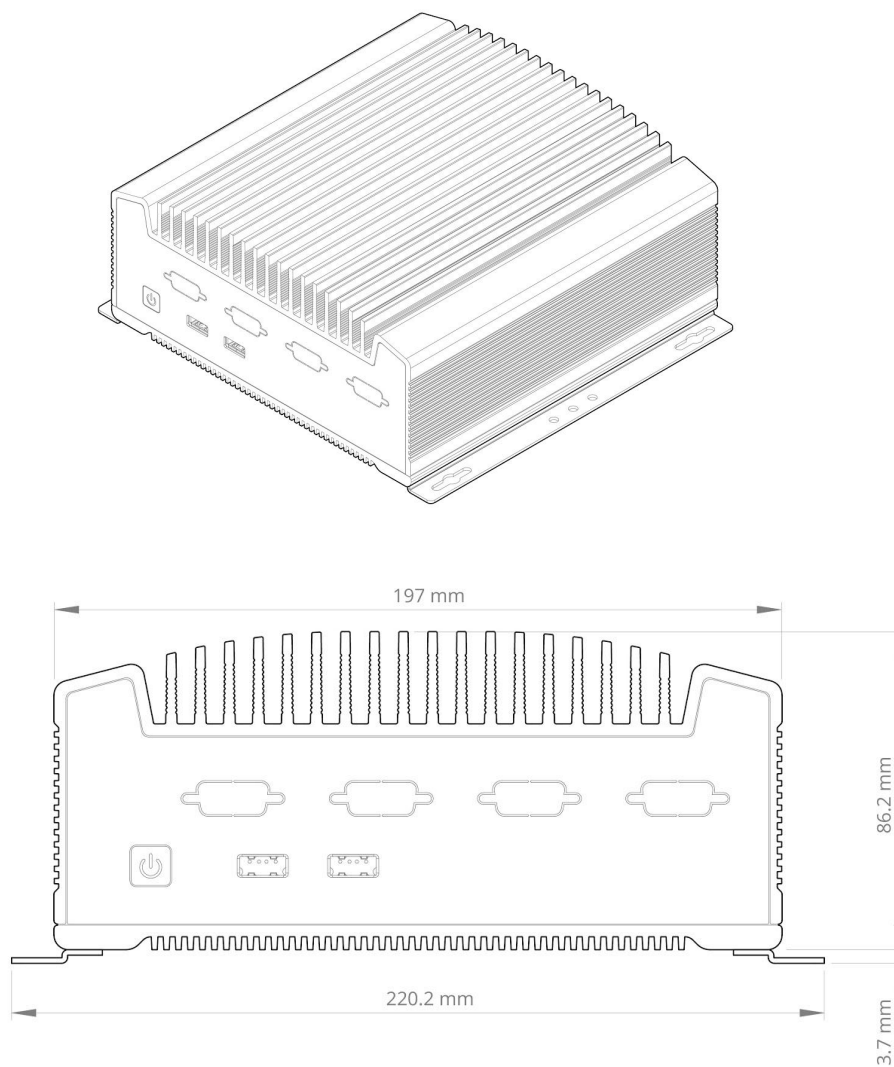
3 - Mounting Instructions

3.1 - Wall and DIN Mounts

Step 1: Attach wall mounting brackets to the chassis using screw M3x0.5 Flat Head screws. The three 4.6 mm holes are for DIN mounting. For DIN, use M3 or 4-40 screws

Step 2: Mark and prepare holes on the surface for mounting.

Step 3: Fasten system to surface.



Note: both the rubber feet and mounting brackets provide the same height of 3.7 mm.

