

**DESCRIPTION**

The new JetSys-2010 is an industrial-rugged AI-Box in Small Form Factor formate with a sophisticated passive cooling concept, featuring the new Nvidia® Jetson Orin™ NX 16 GB and the Nvidia® JetPack ecosystem. EN50155 complaint, the JetSys-2010 is application-ready for industries like Railway, Transportation, Industrial automation and many more. A wide range of interfaces and a robust product design provides state-of-the-art AI computing power even for challenging environments.



**Features**

- Semi-rugged AI-Box in Small Form Factor formate with a sophisticated passive cooling concept
- Featuring the new Nvidia® Jetson Orin™ NX 16 GB and the Nvidia® JetPack ecosystem
- EN50155 compliant
- Power, 2 x GBit Ethernet, USB and common serial Interface off the shelf
- Additional maintenance interfaces like USB-Console and DVI port (limited access)
- Optional extention and IO ready like GSML camera interfaces (on request)

**SOFTWARE SUPPORT**

The design of the JetSys-2010 was kept close to the Nvidia® Jetson Orin™ Developer Kit. By this, the JetSys-2010 can benefit from Nvidias rich swet of AI tools and the Nvidia® JetPack SDK. Contact Elma for available support package and pre-install options.

**APPLICATIONS**

Elma's JetSys-2010 is built for AI processing in demanding environments like Railway, Transportation or Industrial automation.

**RELATED PRODUCTS**



- › AI embedded computing board with CompactPCI Serial interface based on NVIDIA® Jetson Orin™
- › Rugged AI embedded computing platform in small form factor with M.2 support
- › Scalable industrial computing platforms can be mounted in any industrial environment with wide support of field buses

**SPECIFICATIONS****Dimensions**

Height	64 mm
Width	182 mm
Depth	161 mm
Weight	4.5 kg

**Processor**

Nvidia® Jetson Orin™ NX 16 GB

**Storage**

M.2, 1TB; M.2 2242 NVMe SSD

**Interfaces**

2x Gigabit Ethernet, LAN 1; LAN 2, 1x USB 2.0, 1x User defined, S1

Option 1 RS 232

Option 2 RS 485

Option 3 1x CAN

**Cooling**

Cooling concept	Passive, conduction cooled
Protection class	IP 4x

**Power supply unit**

Output (max.)	50 W
Output voltages per unit (max.)	12 V DC
Input voltage	16.8 – 154 V DC
	Compliant to EN50155
	IEC 60571 Railway application-electronic equipment used on rolling stock
	EN45545-2:2020 compliant with all hazard levels H1-H3

**Environmental**

Ambient conditions	-20 °C - +70 °C (both operating and storage)
Shock/vibration	EN 50155
EMC Emission / Immunity	EN 50155
Safety	EN 50155
Fire & smoke	EN 45545-2

**Operating system**

Ubuntu Linux 20.04

**Jet Pack Support**

Jet Pack 5.1.2

**EXAMPLE ORDER NUMBER**

JetSys-2010

**PART NUMBER**

070-080

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**Please contact our sales team for more details.**

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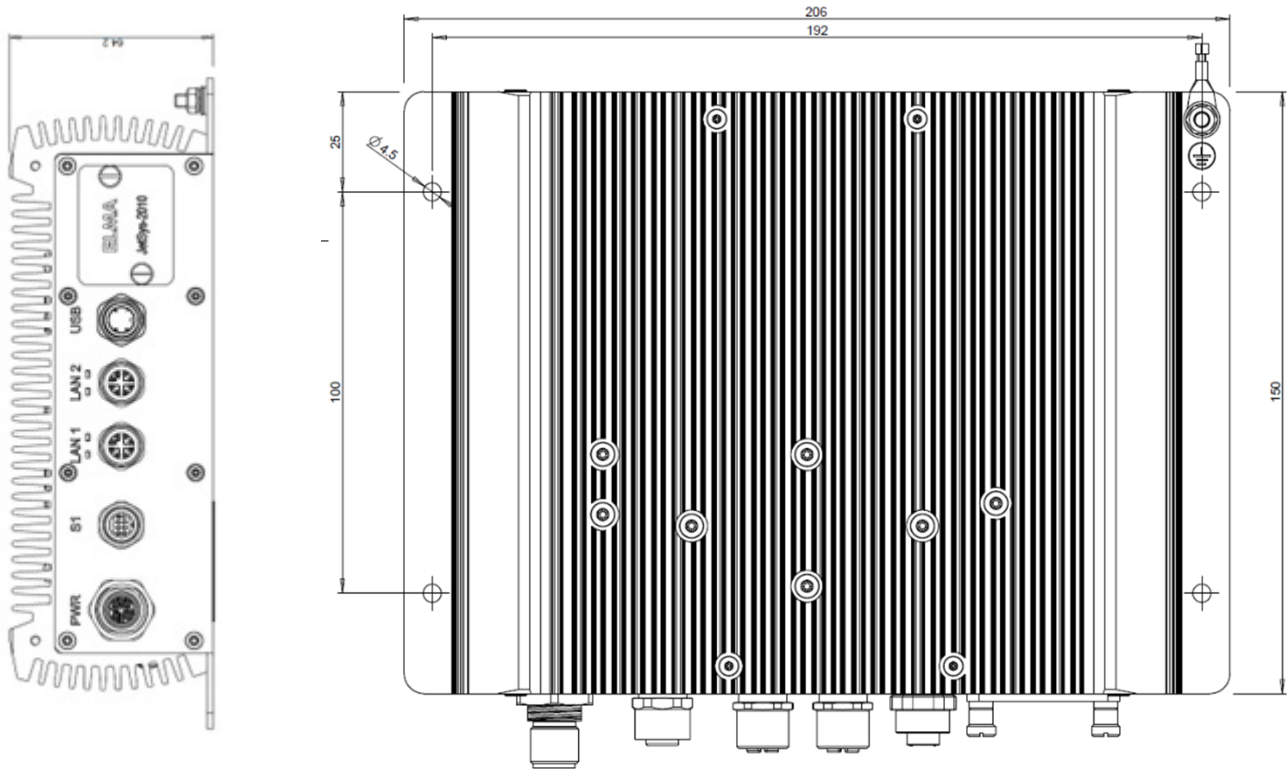
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**DIMENSIONS**



**CABLING OPTIONS**

Cable Kit		
Pos	Elma PN	Description
1	072-852	Cablekit 1 - 2x M12 to RJ45, 2m - 1x M12 to USB 2.0, 2m - 1x M12 to RS232, 2m - 1x USB Adapter F/F
2	072-857	Cablekit 2 - 2x M12 to RJ45, 2m - 1x M12 to USB 2.0, 2m - 1x M12 to RS485, 2m - 1x USB Adapter F/F
3	072-861	Cablekit 3 - 2x M12 to RJ45, 2m - 1x M12 to USB 2.0, 2m - 1x M12 to CAN, 1m - 1x USB Adapter F/F

Individual cabling		
Pos	Elma PN	Description
1	071-869	1x M12 to RJ45, 2m
2	072-758	1x M12 to USB 2.0, 2m
3	072-759	1x M12 to RS232, 2m
4	072-922	1x M12 to RS485, 2m
5	072-760	1x M12 to CAN, 1m
6	072-854	1x USB Adapter F/F

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