

Lorenz AI-link®

3rd generation



Dimension (mm)	160x42x65
Idle Power draw (W)	7,5
Max Power draw (W)	20
Input Voltage (V)	15-27
Max current (A)	1,5
Power connector	XT-30
IP rating	55
Weight (g)	426

The Lorenz AI-Link® is a powerful onboard edge-computer for UAVs and UGVs. Functioning as the missing link between robot and cloud, the Lorenz AI-Link® leverages 4G to connect UAVs and UGVs to the Lorenz Hive cloud platform. The Lorenz AI-Link® is capable of controlling traditional preplanned missions but excels in intelligent data gathering and reactive behavior through the synergy of onboard control and inference of neural networks.

Intelligent data gathering ensures that only relevant data is captured to reduce bandwidth and avoid GDPR limitations while mainting subsecond livestream. All features are available in manually operated missions too, supporting ad hoc requirements of e.g. emergency services.

Weight with antennas and mounts	Matrice 300 RTK (513g) Matrice 210 v2 and Matrice 210 RTK v2 (543g)	Storage	NVMe 256GB + 32GB eMMC 5.1
Human Machine Interface	RGB LED	RAM	8GB LPDDR4
Operating humidity (%)	0 to 90%	GPU	256-core Pascal
Operating x (°C)	-5 to 50	CPU	2-core Nvidia Denver 64bit + 4-core ARMv8 A57

Connectivity/ IO	USB 3.0, Ethernet (by request), 2*UART, 2*CAN (by request)	Supported gimbals	DJI cameras, Viewpro, TeAx+AlexMos
Supported UAVs	Matrice 300 RTK, Matrice 210 v2 and Matrice 210 RTK v2	Supported sensors	Realsense D435i, T265
Supported UGVs	Capra, Clearpath Jackal	Types of missions	Waypoint, Structure Inspection, Mapping
Supported flightcontrollers	DJI flightcontrollers with OSDK and Pixhawk	Behaviours	Trailer detection, Ladder Scan, Visual Tracking & Following