Specifications

	NRU-220S	NRU-2225		NRU-220S	NRU-222S
System Core			Storage		
Processor	Supporting NVIDIA [®] Jetson AGX Orin™ System-on-Module (SOM), comprising NVIDIA [®] Ampere GPU and Arm Cortex-A78AE CPU		SATA HDD	2x front-accessible 2.5" 7mm SSD	
			M.2 NVMe	1x M.2 2280 M key NVMe socket (PCIe Gen4x2) for NVMe SSD	
Memory	32GB/ 64GB LPDDR5 (AGX Orin 32GB/ 64GB) @ 3200 MHz on 5OM		Power Supply		
eMMC	64GB eMMC 5.1 on SOM		1x 3-pin pluggable terminal block 1x M12 A-coded 5-pin for 8V to		
Panel I/O Interface			DC Input	for 8V to 48V DC input and ignition 4	48V DC input and ignition power
	6x RJ45 with screw-lock	6x M12 X-coded 8-pin		power control (IGN/ GND/ V+)	centre (IGN/ GND/ V+)
Ethernet Port	Port 1, Port 2: 2.5 Gigabit Ethernet ports by Intel® 1225 Port 3 ~ Port 6: Gigabit ports, share 1 Gbps total bandwidth		Mechanical	PWR: System carrier board powe	r status
PoE Capability	IEEE 802.3at PoE+ PSE for Port 3 ~ Port 6, 100W total power budget		System LED	OS: Jetson OS boot status IGN: Ignition power signal	
USB	1x USB 3.1 Gen1 port 2x USB 2.0 ports 1x USB Type C (Debug Only)		Dimension	230 mm (W) x 173 mm (D) x 66 mm (H)	
			Weight	TBD	
Video Port	1x DisplayPort, supporting 3840x2160 at 60Hz		Mounting	Wall-mount with damping brackets	
Serial Port	1x Isolated RS-485 port and 2	x RS-232 ports	Environmental		
CAN bus	2x CAN 2.0 port		Operating	DESC = 7005 with possible position (7004/TDD possible) *	
Isolated DIO	4-CH isolated DI and 4-CH isol	ated DO	Temperature	-25°C ~ 70°C with passive cooling (30W TDP mode) *	
Internal I/O Interface			Storage Temperature	-40°C ~ 85°C	
Mini PCI Express	1x full-size mini PCI Express sock 1x full-size mini PCI Express sock	et (PCIe + USB 2.0) for W Fi 6 or CAN et (USB 2.0) for GNSS or 4G LTE	Humidity	10% ~ 90%, non-condensing	
M.2	1x M.2 3042/3052 B key (USB 3.1	Gen 1 + USB 2.0)	Vibration	Operating, MIL-STD-810H, Method 514.8, Category 4	
	for LTE/SG module with dual micro SIM support		Shock	Operating, MIL-STD-810H, Method 516.8, Procedure I	
			EMC	CE/ FCC Class A, according to EN EN 50121-3 (EN 50155:2017, Clau	