



# CURRO capabilities

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# HubX Technical Specifications

## Primary specifications

<b>Weight</b>	1,600kg
<b>Suspension</b>	Max. 2,000kg ( <i>CruiseMaster CRS2</i> )
<b>Tires</b>	16" ( <i>BFGoodrich All Terrain</i> )
<b>Power</b>	240v, 52v, 12v <ul style="list-style-type: none"> <li>• Peak: 1,300w</li> <li>• Idle: 350w</li> </ul>
<b>Solar Generation</b>	2,400w (6 x 400w solar panels)
<b>Battery Capacity</b>	Up to 20kWh (4 x 5kW batteries)

	Tow	Deployed*
<b>Length</b>	4,785mm	4,785mm
<b>Height</b>	2,640mm	4,330mm
<b>Width</b>	1,830mm	5,490mm

\*Mast and solar panels extended

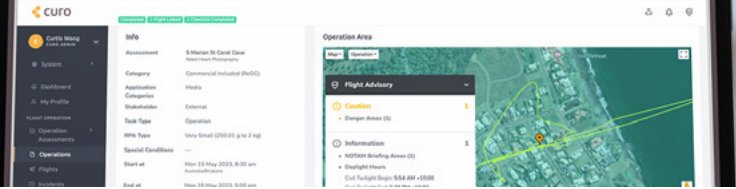
## Design details

<b>Manufacturer</b>	Sphere Communications Pty Ltd
<b>Make</b>	Curo
<b>Model</b>	HubX
<b>VTA Approval</b>	VTA-062460
<b>Patent ID</b>	P0053280AUP
<b>Introduction to Mine Site (ITS) Approved</b> <ul style="list-style-type: none"> <li>• Externally isolated</li> <li>• Electrical schematics</li> <li>• RCD Certification</li> </ul>	November 1, 2023

## Embedded devices

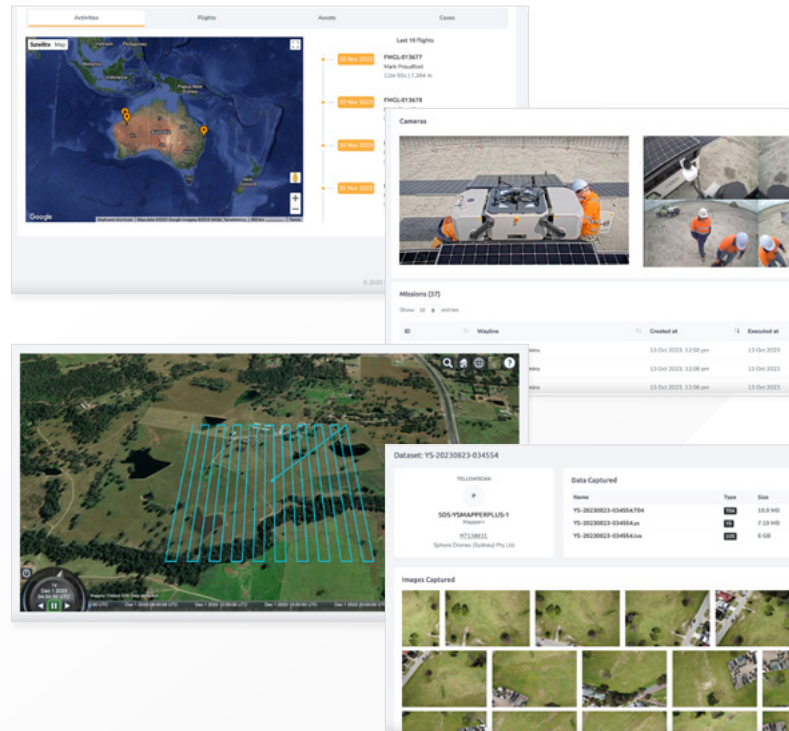
<b>ADS-B</b>	Dual band (978MHz UAT and 1090MHz) aircraft tracking up to 300km range.
<b>Airband Radio</b>	10W Radio over IP (118.000-136.992 MHz) up to 300km broadcast range.
<b>360° / PTZ Camera</b>	<ul style="list-style-type: none"> <li>• <b>360° camera:</b> 4 x 5 MP sensors, total 20 MP resolution</li> <li>• <b>PTZ:</b> 1080p with 32x optical zoom, adaptable IR LED illumination (up to 250m illumination)</li> </ul>
<b>Flood Light</b>	60W / 5,400 lumens
<b>Lightning Detector</b>	Detect lightning up to 480km away.
<b>Weather Station</b>	Live and recorded wind, temperature, rainfall and humidity.
<b>Climate Control</b>	Intelligent thermostat monitoring of individual canopy sections to maintain optimal operating temperature (20°C to 35°C).
<b>GNSS Base Station</b>	8mm horizontal, 15mm vertical RTK precision. Integrated reference base for NTRIP casting and PPK workflows.
<b>Central Locking</b>	Locks entire system, enables remote maintenance and management.
<b>Edge Compute</b>	Jetson AGX Orin, system management, analyse and collect data, perform AI tasks and processing on the edge.
<b>Satellite Connectivity</b>	<i>Starlink</i> for remote locations.
<b>Multicarrier Modem</b>	Multicarrier, cellular bonded modem with 4 x SIMS for bonded connectivity. Supporting Public MNOs and Private LTE.

# Software Capabilities



## Functions

<b>Live Streaming</b>	Share live streams of all cameras within HubX.
<b>Data Storage</b>	Localised AWS Australian servers.
<b>Compliance Manager</b>	For dock and BVLOS operations.
<b>Safety Automation</b>	Floodlight, pulse lighting, stop off all service if surrounding person comes near device.
<b>Software Certifications</b>	CASA-approved safety application
<b>Device Analytics</b>	<ul style="list-style-type: none"> <li>• Weather</li> <li>• Lightning</li> <li>• Humidity</li> <li>• Rain gauge</li> <li>• Solar charge</li> </ul>



# Service Delivery



## Capabilities

<b>Remote Operations Centre</b>	24/7 management and support, Sydney-based
<b>BVLOS Approvals</b>	Managed BVLOS journey
<b>Mission Management</b>	Pilot to develop routine missions with your team on-site to ensure operation efficiency.
<b>Asset Maintenance</b>	Maintenance regime to ensure continuous operations in rural and remote locations.
<b>Health Management</b>	Managing the day-to-day operations of architected devices, managing updates, integrations hardware and tech stacks of HubX.
<b>Insurance</b>	Aviation, marine transport, general property and motor vehicle are all inclusive.

## Compliance Certification

<b>CASA ReOC Number</b>	1114
<b>Aviation Reference Number</b>	1033409
<b>BARS Certified</b>	✓
<b>BVLOS Approved</b>	✓
<b>IREX Qualified</b>	✓