



# Autonomous Rapid Communications

Reliable, transportable wireless communications in remote locations

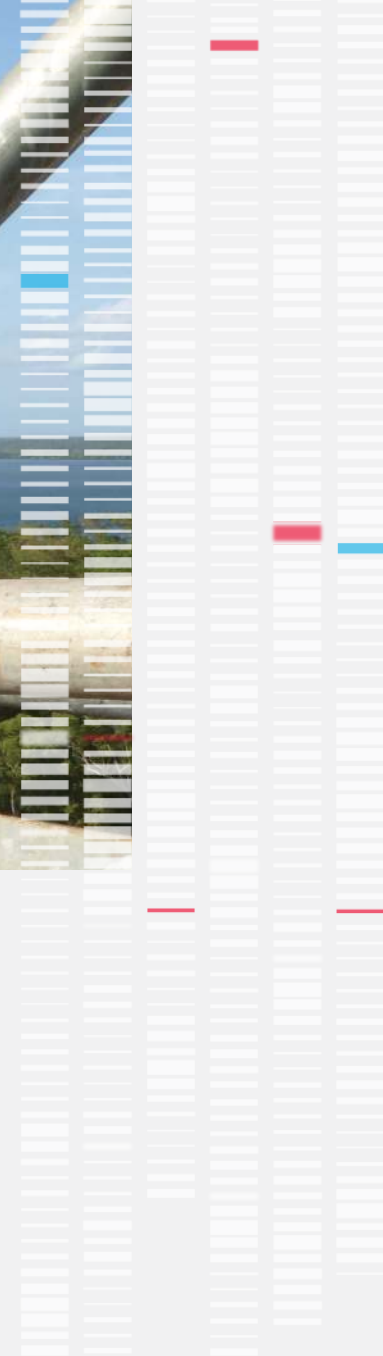






## **Integrated, High Performance Communications Platform**

- Fast-deployment communication solutions for remote environments
- Low-latency 4G-LTE coverage (~5km)
- Integrated industrial Wi-Fi networks
- Automated satellite providing backhaul
- Heavy duty, mine-spec trailer
- On-board compute, firewall & QoS



# The Problem...

Modern organisations are gaining significant performance improvements through the use of latest generation business applications and communications systems. A high-speed network is a crucial requirement to support these systems, but what happens when you are operating in remote areas that don't have any communications coverage?

# The Solution...

The Autonomous Rapid Communications (ARC) platform delivers a fully autonomous network connectivity solution for off-grid, remote area activities such as exploration or early stage construction. It is ideal for situations that require fast, secure connectivity in highly remote areas which are not served by any existing communications infrastructure.

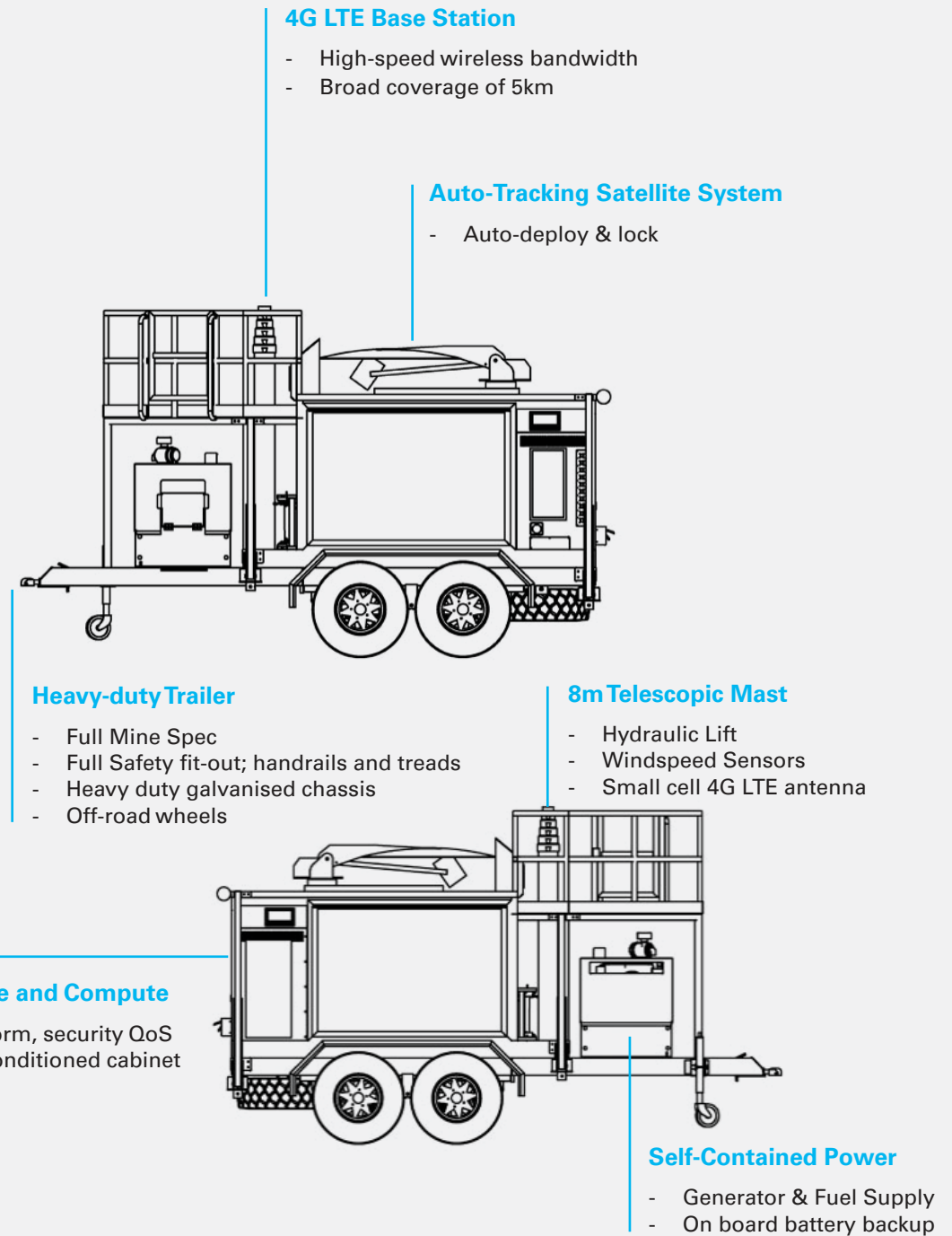
The ARC platform can be deployed in hours and offers superior performance to meet the demand of field teams who require real-time access to business support, production, communications and safety systems.



# A Proven Platform

The ARC trailer has been deployed to support major operations, and is changing the communications landscape in remote areas.

The ARC is customisable for various communications standards (Wi-Fi, LoRaWAN) and our team can offer the platform as a turn-key solution for outright purchase, or via leasing with spectrum approvals and satellite connectivity access.



# The Benefits...



## **4G LTE by default. Wi-Fi and LoRaWAN options available**

Flexible connectivity, low latency, broad coverage (~5km) to staff, devices & equipment users in remote locations.



## **Fast Deployment**

Typically operational within an hour.



## **Fully Integrated**

Integrated satellite backhaul, power, security and LTE network core to enable back to site connectivity, towable by a light vehicle.



## **Network Traffic Management**

Allows for traffic prioritisation (QoS) across Voice, Data and Video.



## **Real-Time Data Access**

Reduces risks & improves efficiency by enabling real-time data access from across sites to corporate systems and platforms.



## **Mine-spec platform**

Ruggedised trailer and electronics, capable of handling extreme environmental conditions.



## **On-board compute platform**

Allows local & immediate processing of data.



## **Cost-effective**

Ability to stream data from a remote site allows for prompt feedback to the remote team, helping to avoid costly back tracking to locations that have been identified as explorable.

# Rent Or Buy

The Aqura ARC platform is available via a number of commercially competitive means.

## **OUTRIGHT PURCHASE**

- Outright purchase with fully customisable configuration
- Managed service options available post-delivery

## **LEASING**

- Fixed term lease with customisable configuration
- Customisation options on request – MCPTT, Applications Integration
- Managed service options available
- Best for periods greater than 12 months

## **RENTAL**

- Full turnkey rental of fixed configuration
- Customisation options on request – MCPTT, applications integration
- Managed service model with or without satellite backhaul and spectrum
- Best for periods less than 12 months

# ARC Platform Specifications



ITEM	DESCRIPTION
<b>Dimensions</b>	Approx. 4100mm x 2200mm x 2800mm
<b>Weight</b>	Approx. 3.2T
<b>Power System</b>	<ul style="list-style-type: none"><li>- Generator with fuel tank and distribution board including manual generator switch;</li><li>- 1000w DC System &amp; Inverters;</li><li>- 16 x SBS100 EON Batteries;</li><li>- DC &amp; AC Sockets to suit requirements;</li><li>- 800W cabinet air conditioner and emergency fan forced cooling.</li></ul>
<b>Network System</b>	<ul style="list-style-type: none"><li>- 4G LTE EPC (Including HSS, PCRF, MME, SGW/PGW);</li><li>- 4G LTE Base Station (eNodeB);</li><li>- Satellite Modem;</li><li>- Ruggedised Local Compute Platform;</li><li>- Ruggedised Network Router;</li><li>- LoRaWAN Base Station (optional)</li></ul>
<b>Chassis</b>	<ul style="list-style-type: none"><li>- Off road tyres (LT235/85R16);</li><li>- Telescopic outriggers;</li><li>- Galvanised frame with integrated lifting points;</li><li>- Will-Burt 9m pneumatic mast with compressor;</li><li>- Satellite dish and antenna tracking equipment;</li><li>- Rocker roller type 3.5T suspension</li><li>- Electric brakes with on-board adjustable Hydrastar XL brake controller;</li><li>- Reflective identification numbering and taping to mining specifications;</li><li>- Mast mount and stowage arrangement</li></ul>

\*The ARC can be specified with alternate power options, Wi-Fi and LoRaWAN configurations.





## ABOUT AQURA TECHNOLOGIES

Aqura Technologies offers a broad suite of communications solutions which are significant enablers of high performance in modern, digitally driven enterprises.

The organisation is known for innovation, whether it is our technology approaches such as Private 4G and 5G and Industrial IoT, or our commercial approaches which now offer in-house developed technology solutions via flexible as-a-Service models.

Aqura delivers its services across Australia from offices in Perth, Melbourne and Brisbane.

Aqura is a standalone company in the Telstra Purple family of businesses.

Contact: 1300 58 57 58



### Industrial Wireless

High-speed, secure 4G & 5G and Wi-Fi



### Complete Access Network

User-centric access to entertainment, Internet and communications



### Industrial IoT

Unified management and integration of connected sensors and 'things'



### Autonomous Rapid Communications

Innovative fast-deployment comms platform for extreme remote locations

\*All trademarks, service marks and company names are the property of their respective owners.