

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	79946
Licensee	AURIZON NETWORK PTY LTD
Trading name	QR Network Pty Ltd
Licensee address	Attn: Scott Andrews GPO Box 456, BRISBANE, QLD 4031

Licence details

Licence service	Fixed
Licence subservice	Point to Multipoint - Land Mobile Spec
Licence number	143249/1
Callsign	VL4QR
Date of issue	08/05/2023
Date of effect	08/05/2023
Date of expiry	30/05/2024

Licence conditions

Your licence is subject to conditions set out in the *Radiocommunications Act 1992*. Your licence may also be subject to such other licence conditions as determined by the ACMA (in licence condition determinations) from time to time, and is also subject to special conditions as detailed on this licence.

The conditions that are imposed on a licence vary according to the type of licence issued, the service being operated and the section of the *Radiocommunications Act 1992* under which the licence has been issued. For further information about the conditions that apply to your licence, please contact the ACMA (see contact details below).

Rights of appeal

A decision by the ACMA to impose further conditions or revoke or vary the conditions of your licence may be reviewable. If you are affected by, and dissatisfied with, such a decision you may apply to the ACMA to have the ACMA reconsider the decision under section 288 of the *Radiocommunications Act 1992*.

An application for reconsideration must state the reasons for the request, and should be sent to the Customer Service Centre, Australian Communications and Media Authority, PO Box 78, Belconnen, ACT, 2616. Applications for review of decisions can be made using the R051 - Application for review of Decision form, available on the ACMA website.

Important

An application for the ACMA to reconsider a decision to impose or vary licence conditions must be made to the ACMA within 28 days of the day on which you are informed of the decision. An application for reconsideration made after that time may not be accepted.

ACMA contact details

Customer Service Centre
PO Box 78
BELCONNEN ACT 2616

Telephone: 1300 850 115
Email: info@acma.gov.au

ACMA website: www.acma.gov.au

Special Conditions applying to licence no.: 143249/1

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

Advisory Notes applying to licence no.: 143249/1

Conditions applicable to the operation of point to multipoint station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination and the Radiocommunications Licence Conditions (Fixed Licence) Determination, the 'fixed licence lcd'. Copies of these determinations are available from the ACMA and from the ACMA home page (www.acma.gov.au).

This service is authorised to operate outside of harmonised frequency ranges as set out in Australian Radiofrequency Spectrum Plan footnote AUS98.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 1:

Site details

Site ID	17384
Site address	QR Site, FAIRHILL QLD 4702
Co-ordinates (GDA94)	Latitude: -23.307676 Longitude: 148.55634

Transmitter details

Assigned frequency	471.825000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000571636
Transmitter power	5.00 W
EIRP	8.40 W
Emission designator	16K0F1D

Antenna details

Antenna ID	71
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Coaxial Dipole-D

Receiver details

Assigned frequency	471.825000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000571639
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F1D

Antenna details

Antenna ID	71
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Coaxial Dipole-D

Advisory Notes applying to Station 1

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.

Relocate into Rail Industry Only (RIO) band segments

Special Conditions applying to Station 1

An efficient cavity filter must be fitted between the receiver and the antenna.

An efficient cavity filter must be fitted between the transmitter and the antenna.

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.