



JANUARY 2024



QCN's Wavelength services link your sites through top performance, low latency connections – throughout Queensland and enable connectivity to Asia and the USA via the JGA South International Cable.

QCN's Wavelength services are best suited for core network transmission, data replication, data storage connectivity and disaster recovery.

These are delivered over our state of the art, high performance, carrier-grade network, throughout Queensland and beyond.

Our network spans more than 13,000 kilometres, stretching West from Brisbane to Toowoomba and beyond, and North through regional townships up to Cairns. Uniquely, our network is constructed within the high voltage corridor, providing a diverse option to other major carriers.



Connecting Queensland

QCN is jointly owned by the Queensland Government Corporations Powerlink Queensland and Energy Queensland. We provide secure, diverse offerings to other carriers. Already connected to regional Queensland towns, cities and data centres, our reach is growing every day.

EXTENSIVE REGIONAL REACH	Services across the 1.853 million km ² of Queensland.
FAST	100Gbps Ethernet or OTU4 10Gbps Ethernet or OTU2
RELIABLE	Options for unprotected, protected or dual with full redundancy, 24x7 operational support, fully automated and proactive monitoring. Highly secure network design, availability target of 99.95% for protected services.
FLEXIBLE	Ethernet and OTN Interfaces.
EXTREME LOW LATENCY	Providing support for real time applications.

SUPPORTED: You get to know the team and deal with the same people from design through to operations.

HIGHLY SKILLED: Our highly skilled team and their partners will help you unlock the value in your business and design the best solution for your needs.

COMPREHENSIVE: We deliver the whole solution – network design, facilities access, contractor management, civil works, and service testing.

Key Features

- **Highest grade service** – our network was built to support critical power infrastructure. We deliver our wavelength services over our DWDM network, enabling us to dedicate bandwidth to improve security and optimise your network.
- **Super flexible** – our network is designed for optimal performance for 100Gbps services. Protocol transparency supports a broad range of applications – it's your pipe!
- **High availability** – customised protection options, super reliable, fully redundant architecture, private connectivity.
- **Keeping it simple** – Ethernet or OTN Interfaces supporting the most demanding applications.
- **24X7 support** – backed by excellent service level agreements.

Service Type	Ethernet	OTN
Bandwidth	100Gbps 10Gbps	100Gbps 10Gbps
Interface specification	100GBASE-LR4 (10km, 103.1G–111.8G, 4X25G, 1310NM) 100GBASE-ER4 (40km, 103.1G–111.8G, 4X25G, 1310NM) 10GBase-LR (SMF, 1310nm, 10km) 10GBase-ER (SMF, 1550nm, 40km) 10GBase-ZR (SMF, 1550nm, 80km)	OTU4 (10km, 103.1G–111.8G, 4X25G, 1310NM) OTU4 (40km, 103.1G–111.8G, 4X25G, 1310NM) OTU2, OTU2e standards compliant interface
Coverage	Metro DC-DC Statewide	Metro DC-DC Statewide

Unprotected Wavelength Service



Protected Wavelength Service protection



Dual, unprotected configuration

