

Welcome to the CityLink LightZone
Transform your network



Quanta

Premium Data Access Service

Quanta is a high performance data access circuit for connecting your customers to your network with market leading availability and bandwidth rates. Quanta is available in two flavours, E-LAN and E-Line, both of which offer high availability, high throughput, committed bandwidth, and rapid, skilled support. A high performing, dependable service gives you the confidence to focus on providing a superior and unique service to your customers.



Quanta Features and Benefits

High speed access

Not all bandwidth is created equal. Like all LightZone services, Quanta bandwidth is symmetrical, meaning that upstream and downstream bandwidth is delivered at full circuit speed. Quanta bandwidth is also uncontended – that is, not shared with other users – to ensure high-speed access all the time.

Proven technology

Quanta uses CityLink's proven Ethernet network to deliver market-leading data access rates to your business. Ethernet is an established technology with proven plug-and-play capability and works well with commonly available, industry standard equipment.

Flexible Delivery

Quanta is delivered as a Q-in-Q capable access port, and allows you to select either E-Line or E-LAN network architectures, and to mix both on the same network-to-network interface (NNI). The service can be delivered to the customer's site using either RJ-45 Ethernet or SC fibre-optic connectors.

Light path connectivity

Quanta is delivered using an uninterrupted light path all the way from a CityLink core node to your customer's site, supporting speeds of up to 1Gbps (and higher on Quanta E-Line services). As the only powered equipment in the circuit has the redundant power supplies of a CityLink core node, or is on the same power supply as the end user's CPE, Quanta can deliver a remarkable target availability of 99.95%.

Assured service

Quanta provides dependable network delivery and direct access to skilled technical support engineers with 24 x 7 support and service restoration, ensuring high levels of network resiliency and service availability.

Quanta Product Specifications

	Quanta E-Line	Quanta E-LAN
Ethernet Virtual Connection (EVC) Attributes		
EVC Type	point-to-point	multipoint-to-multipoint
CE-VLAN ID Preservation		Yes
CE-VLAN Limit		4095
CE-VLAN CoS preservation		Yes
Unicast frame delivery	Yes	Yes
Multicast frame delivery	Yes	Yes (limited to 200kbps/0.1% of speed)
Broadcast frame delivery	Yes	Yes (limited to 200kbps/0.1% of speed)
UNI Performance Parameters		
Speed (Mbps)	10, 50, 100, 1000 (>1Gb POA)	10, 50, 100, 1000
Target Availability		99.95%
Frame Delay		< 2ms
Frame Jitter		< 1ms
Frame Loss		< 0.05%
Service Support		24 hours x 7 days
Service Restoration		24 hours x 7 days
UNI Physical Interface		
UNI Physical Medium	1000BaseT, 1000Base, 10GBase	1000BaseT, 1000Base
UNI Interface Speed (Gbps)	1 Gbps, 10 Gbps	1 Gbps
MAC address limit	Unlimited	50 +
Maximum UNI MTU Size	9050 bytes	9000 bytes
UNI Duplex Mode		Auto
MAC Layer		IEEE 802.3
Service Multiplexing		No
All to one bundling		No

CityLink and the LightZone

CityLink, part of the TeamTalk group of companies, is a leading supplier of high performance broadband solutions throughout New Zealand. We have been transforming broadband and business since 1995. The LightZone is CityLink's pioneering metropolitan ultra-fast fibre network. It offers Retail Service Providers a flexible ecosystem of network components which enables services to be delivered to your customers. LightZone services are unbundled and designed to offer maximum flexibility, so that you can select the components you need in order to connect your customers and differentiate your services.



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LIGHT ZONE