

# Tsunami Quickbridge® 10250 BeamX Series

Simplifying Deployment of High Bandwidth Services



# **Designed for Easy and Cost Effective Installation**

The Tsunami Quickbridge®10250 BeamX radios speed deployment of point to point networks by eliminating the complicated and time-consuming antenna alignment process. The intelligent beam steering technology first used in our Multi-point Base station, the MP-10250-BSX has been adapted to enable easy and cost-effective installation. Now a rough alignment between endpoints is enough for the unit to take control of the setup, as the Quickbridge®10250 manages, and maintains the fine tuning for optimum Signal to Noise Ratio.

In non-Line Of Sight (nLOS) configurations, the beam steering technology comes into its own, enabling alignment optimization, even when reflecting the beam off a wall situated between endpoints.

The always-on BeamX intelligence ensures the link remains optimized to take full advantage of the systems high throughput capability.

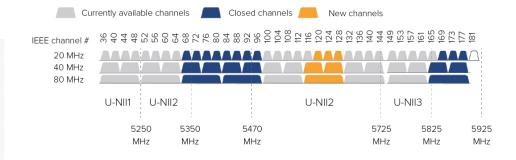
The BeamX solution combined with the secondary look-ahead scan radio improves performance even in high RF interference environments.

### Fast, Secure and Flexible

- Point to Point link that delivers up to 866 Mbps data rate and covers distances up to 10 miles (16 km)
- AES 128 encryption, Radius authentication, and highly-secure remote management via SSL/TLS1.2, SSH, and SNMPv3
- Service flow based QoS with deep packet inspection (DPI) to ensure critical data arrives with priority
- Built-in feature-rich network protocols for IPv4 and IPv6 bridging, routing and gateway functionality

#### **Proxim SmartScan**<sup>™</sup>

- Performs background analysis of the full RF spectrum and creates channel availability tables to allow an immediate switch to a free channel in case of weather radar detection or interference
- By removing the initial transmission delay, SmartScan makes DFS channel more efficient
- It also opens access to the 5.600-5.650 GHz sub-band and enables effective use of up to 355 MHz of DFS spectrum



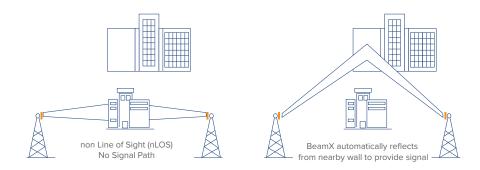
# **About Proxim Wireless**

Proxim Wireless is a pioneer and global leader in advanced Wi-Fi, point to point, and point to multipoint outdoor wireless systems that deliver high performance and high availability communications.

With over 30 years of wireless experience, Proxim is recognized for its unparalleled reliability, superior performance and drive for innovation.

#### BeamX<sup>™</sup> Antenna

- Smart antenna delivering a 17° beam that electronically steers itself to the remote end point over a 60° sector, to limit interference from nearby RF sources
- BeamX QB speeds up deployment by removing the antenna alignment phase.
   Roughly aim at the remote end, and the BeamX technology does the fine-tuning, optimizing SNR
- In urban nLOS conditions, BeamX QB finds the right reflection on a nearby wall or building to facilitate connectivity



# Rugged and Reliable

The Tsunami Quickbridge®10250 BeamX is Designed for harsh environments, and is fully IP67 rated, and will deliver years of reliable service in conditions that include, high winds, high salt, and high-temperature extremes.

## **Key Technologies**

The Tsunami Quickbridge®10250 BeamX device supports the following features for applications that include last mile access or video surveillance, both of which need prioritized and continuous high-speed broadband wireless access:

#### **Proxim WORP®**

Combines network access control, data scheduling, advanced QoS, and encryption to ensure highly efficient and secure data transmission

#### **Proxim ClearConnect**™

A suite of interference mitigation technologies ensuring robust and reliable communications in high-density wireless deployments.

#### **Proxim SmartConnect™**

Delivering exceptional performance in noisy RF locations by combining a beam steering antenna with a secondary look ahead scan radio to seek, manage, and select the best channel.

# Specifications

	PRODUCT MODELS				PART NUMBERS		
WRELESS PROTOCOL WCRP** (Wireless Outdoor Router Protocol) WRELESS PROTOCOL WRELESS PROTOCOL WRELESS PROTOCOL WRELESS PROTOCOL WRELESS WRE	QB-10250-LKX	Tsunami QB 10250 EndPoint, 8	902-00903 QB-10250-LKX-US 902-00905 QB-10250-LKX-WD				
MINELES PROTOCOL  MADIO & TX SPECS  MADIO & TX SPECS  MADIO & TX SPECS  MADIO & TX SPECS  MODULATION  OPEN with BFSK, OPSK, CAMIN, CAMIS, CAME4, CAM256 FREQUENCY  4 900 − \$380 GH; Exployed to Capacity Fegulations)  OCHANNIT SUP  30 MHz, A0 MHz and 20 MHz  30 MHz, A0 MHz and 20 MHz  MCSD 10 9 with Dynamic Date Rate Selection  Up to 28 dBm (state chain)  IX POWER CONTROL  O 27 dBm in distance Juneau Exployed Committed and MCSD 28 dBm MCSD 29 dBm NA  MCSD 28 dBm MCSD 28 dBm MCSD 29 dBm NA  MCSD 28 dBm MCSD 29 dBm NA  MCSD 28 dBm MCSD 20 dBm MCSD 29 dBm NA  MCSD 29 dBm MCSD 29 dBm NA  MCSD 29 dBm MCSD 29 dBm NA  MCSD 29 dBm NA  MCSD 29 dBm NA  MCSD 29 dBm NA  MCSD 39 dBm NA  MCSD	INTERFACES						
MMODULATION 2-2 2 and 0-2-2 (scan radio) OPDW with BRSK, CAPSK, CAMIG, CAMIG, CAMG4, CAM25G MODULATION OPDW with BRSK, CAPSK, CAMIG, CA				PoE in & Data, Port #2 with Po	E out & Data)		
MCDULATION   OPEN with BPSK, OPEN, GAMRE, OAMSE, OAMSE   ACREATING STEEDURING   A 200 m. 1 5.85 of 14K (Subject to Country Regulations)   Subject   Accountry Regulations	RADIO & TX SPECS						
MCS0: 28 dBm MCS0: 28 dBm MCS0: 28 dBm MCS0: 29 dBm MCS0: 29 dBm MCS0: 29 dBm MCS0: 29 dBm MCS0: 34 dBm MCS0:	MODULATION FREQUENCY CHANNEL SIZE DATA RATE TX POWER	OFDM with BPSK, QPSK, QAM' 4.900 – 5.850 GHz (Subject to 80 MHz, 40 MHz and 20 MHz MCS 0 to 9 with Dynamic Data Up to 28 dBm (dual chain) 0 - 27 dB, in 1 dB steps. Automa	Country Regulations)  Rate Selection  atic TPC with configurable EIRP				
MCS9: 21 dBm MCS9: 22 dBm MCS9: 22 dBm MCS0: 49 dBm N/A  MCS0: 49 dBm MCS0: 49 dBm MCS0: 49 dBm MCS0: 49 dBm N/A  MCS0: 48 dBm MCS0: 49 dBm MCS0: 49 dBm MCS0: 44 dBm N/A  THROUGHPUT Up to 672 Mbps Up to 324 Mbps Up to 137 Mbps N/A  DTHER Dynamic Channel Selection (DCS) based on interference detection. Dynamic Frequency Selection (DF5) based on radar signature. Automatic Transmit Power Control (ATPC) with EIRP limit support.  ANTENNA - Integrated 2x2 MIMO Beam Steering Antenna:  Been Width 17* spanning over ± 30° sector 16 dBi (11 dBi before 5.150 GHz)  Been Width 20 dBi (11 dBi before 5.150 GHz)  Been Width 20 dBi (11 dBi before 5.150 GHz)  Brown Been Steering Antenna:  BRMOTE Teinet and SSH, Web GUI and SSL, TFTP, SNMPV3  SNMP SNMP SNMP SNMP SNMP SNMP SNMP SNMP							
RX SENSITIVITY (Per=10%)  MCS0: -89 dBm MCS0: -93 dBm MCS0: -93 dBm MCS0: -94 dBm N/A  MCS0: -68 dBm MCS0: -71 dBm MCS8: -74 dBm NCS0: -71 dBm	TX POWER	MCS0: 28 dBm	MCS0: 28 dBm	MCS0: 29 dBm	N/A		
MCS9: -68 dBm MCS9: -71 dBm MCS8: -74 dBm MCS0: -71 dBm MCS8: -74 dBm N/A  THROUGHPUT  Up to 672 Mbps Up to 324 Mbps Up to 137 Mbps N/A  Dynamic Channel Selection (DCS) based on interference detection. Dynamic Frequency Selection (DFS) based on radar signature. Automatic Transmit Power Control (ATPC) with EIRP limit support.  ANTENNA - Integrated 2x2 MIMO Beam Steering Antenna:  Beam Width 17° spanning over ± 30° sector 16 dBl (tl dBl before 5.150 GHz)  Transmit Gan 20 dBl (tl dBl before 5.150 GHz)  MANAGEMENT  Telnet and SSH, Web GUI and SSL, TFTP, SNMPV3 SNMP SNMP - Integrated 2x2 MBM SNMP - Integrated 3x4 McGan Sysiog, sFlow* agent, SNTP and local time, Spectrum analyzer  SYNCHRONIZATION  Pass-through IEEE 1588v2 Ethernet Synchronization  SECURITY  NCRYPTION AES 128 AUTHENTICATION Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)  DIS  Asymmetric Bandwidth Control Packet Classification Packet Classificatio		MCS9: 21 dBm	MCS9: 22 dBm	MCS8: 25 dBm			
THROUGHPUT  Up to 672 Mbps  Up to 324 Mbps  Up to 324 Mbps  Up to 137 Mbps  N/A  DTHER  Dynamic Channel Selection (DCS) based on interference detection. Dynamic Frequency Selection (DFS) based on radar signature. Automatic Transmit Power Control (ATPC) with EIRP limit support.  ANTENNA - Integrated 2x2 MIMO Beam Steering Antenna:  Beam Width  17" spanning over 1 30" sector 16 dBt (11 dBi before 5.150 GHz) 17 Insmith Gain  20 dBt (11 dBi before 5.150 GHz) 17 Insmith Gain  20 dBt (11 dBi before 5.150 GHz) 18 SMMP SMMP VI-V2c-V3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB 18 Syslog, SFlow* agent, SNTP and local time. Spectrum analyzer  SYNCHRONIZATION  Pass-through IEEE 1588v2 Ethernet Synchronization  SECURITY  ENCRYPTION  ALES 128  Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)  Cos  Asymmetric Bandwidth Control Packet Classification Capabilities Scheduling  Best Effort, Real Time Polling Services  NETWORK  MODES  IPP 3TACK  Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPP 3TACK  GATEWAY FEATURES  ULAN  Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPP 3TACK  GATEWAY FEATURES  ULAN  Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPP 3TACK  Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPP 3TACK  GATEWAY FEATURES  ULAN  Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPP 3TACK  Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPP 3TACK  GATEWAY FEATURES  ULAN  Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPP 3TACK  GATEWAY FEATURES  ULAN  Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPP 3TACK  GATEWAY FEATURES  ULAN  Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPP 3TACK  Bridging (support LACP	RX SENSITIVITY (Per=10%)	MCS0: -89 dBm	MCS0: -93 dBm	MCS0: -94 dBm	N/A		
Dynamic Channel Selection (DCS) based on interference detection. Dynamic Frequency Selection (DFS) based on radar signature. Automatic Transmit Power Control (ATPC) with EIRP limit support.  ANTENNA - Integrated 2x2 MIMO Beam Steering Antenna:  Beam Width  17° spanning over ± 30° sector 16 dBl (If dBl before 5.150 GHz) 20 dBl (If dBl before 5.150 GHz) 30 dBl (If dBl before 5.150 GHz) 40 MANAGEMENT  BEMOTE SNMP  SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB Syslog, sFlow" agent, SNTP and local time, Spectrum analyzer  SYNCHRONIZATION  Pass-through IEEE 1588v2 Ethernet Synchronization  Pass-through IEEE 1588v2 Ethernet Synchronization  SECURITY  ENCRYPTION  AES 128 Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)  COS  Asymmetric Bandwidth Control Packet Classification Capabilities Scheduling  Best Effort, Real Time Polling Services  Best Effort, Real Time Polling Services  NETWORK  MODES Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPv4 and IPv6 simultaneously DHCP Server & relay, NAT with Std ALGs, PPoE end point with Proxy DNS  MODES Bridging (Support LACP through external switches), Routing (RIP v2 and IP tunneling) IPv4 and IPv6 simultaneously DHCP Server & relay, NAT with Std ALGs, PPoE end point with Proxy DNS  MODES Bridging (Support LACP through external switches), Routing (RIP v2 and IP tunneling) IPv4 and IPv6 simultaneously DHCP Server & relay, NAT with Std ALGs, PPoE end point with Proxy DNS  802.10: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging INPUT  OUTPUT  48 to 57 VDC – 25 Watt on Ethernet port2 (PoE – software controlled) 12 VDC via Access port Power should not be provided simultaneously on both ports		MCS9: -68 dBm	MCS9: -71 dBm	MCS8: -74 dBm			
ANTENNA - Integrated 2x2 MIMO Beam Steering Antenna:  Beam Width   17* spanning over ± 30* sector   16 dBi (11 dBi before 5:150 GHz)   17* spanning over ± 30* sector   16 dBi (11 dBi before 5:150 GHz)   17* spanning over ± 30* sector   16 dBi (11 dBi before 5:150 GHz)   17* spanning over ± 30* sector   16 dBi (11 dBi before 5:150 GHz)   17* spanning over ± 30* sector   16 dBi (11 dBi before 5:150 GHz)   18* spanning over ± 30* sector   16 dBi (11 dBi before 5:150 GHz)   18* spanning over ± 30* sector   16 dBi (11 dBi before 5:150 GHz)   18* spanning over ± 30* sector   18* spanning over ± 30* s	THROUGHPUT	Up to 672 Mbps	Up to 324 Mbps	Up to 137 Mbps	N/A		
Beam Width Receive Gain To 16 dBi (11 dBi before 5.150 GHz) Transmit Gain 20 dBi (11 dBi before 5.150 GHz)  MANAGEMENT  REMOTE REMOTE SIMMP SIMMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MiB SIMMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MiB STHERE SYNCHRONIZATION Pass-through IEEE 1588v2 Ethernet Synchronization  SECURITY  ENCRYPTION AES 128 Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)  OSS  Asymmetric Bandwidth Control Packet Classification Capabilities Scheduling Best Effort, Real Time Polling Services  Best Effort, Real Time Polling Services  NETWORK  MODES P STACK MODES Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPv4 and IPv5 simultaneously DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS VLAN S02.10: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging  POWER  INPUT  OUTPUT  48 to 57 VDC - 25 Watt on Ethernet port2 (PoE – software controlled) 12 VDC via Access port Power should not be provided simultaneously on both ports	OTHER	1			ection (DFS) based on radar signature.		
Receive Gain (16 dBi (11 dBi before 5.150 GHz) 20 dBi (11 dBi befo	ANTENNA - Integrated 2x2 MIMO	Beam Steering Antenna:					
REMOTE SNMP SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2790, RFC-2571, RFC-3412, RFC-3414, Private MIB Syslog, sFlow* agent, SNTP and local time, Spectrum analyzer  SYNCHRONIZATION  Pass-through IEEE 1588v2 Ethernet Synchronization  SECURITY  ENCRYPTION AES 128 AUTHENTICATION Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)  GOS  Asymmetric Bandwidth Control Packet Classification 302.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType Capabilities Scheduling Best Effort, Real Time Polling Services  NETWORK  MODES IPV and IPV6 simultaneously DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS VLAN 802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging  POWER  INPUT  OUTPUT  48 to 57 VDC - 25 Watt on Ethernet port2 (PoE – software controlled) 12 VDC via Access port Power should not be provided simultaneously on both ports	Receive Gain	16 dBi (11 dBi before 5.150 GHz)					
SNMP v1-v2c-v3, RFC-1213, RFC-1215, RFC-2571, RFC-3412, RFC-3414, Private MIB Syslog, sFlow* agent, SNTP and local time, Spectrum analyzer  SYNCHRONIZATION  Pass-through IEEE 1588v2 Ethernet Synchronization  SECURITY  ENCRYPTION AES 128 AUTHENTICATION Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)  DOS  Asymmetric Bandwidth Control Packet Classification Capabilities Best Effort, Real Time Polling Services  NETWORK  NODES P STACK IPv4 and IPv6 simultaneously DHCP Server & relay, NAT with Std ALGs, PPp6 end point with Proxy DNS ALAN 802.10: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging  NOTE  NOT	MANAGEMENT						
Pass-through IEEE 1588v2 Ethernet Synchronization  SECURITY  ENCRYPTION AES 128 AUTHENTICATION Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)  QoS  Asymmetric Bandwidth Control Packet Classification Capabilities Scheduling Best Effort, Real Time Polling Services  NETWORK  MODES Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPV 4 and IPv6 simultaneously DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS VLAN 802.10: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging  POWER  INPUT  OUTPUT  48 to 57 VDC - 25 Watt on Ethernet port2 (PoE – software controlled) 12 VDC via Access port Power should not be provided simultaneously on both ports	SNMP	SNMP v1-v2c-v3, RFC-1213, RFC	C-1215, RFC-2790, RFC-2571, RF				
ENCRYPTION AES 128 Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)  QoS  Asymmetric Bandwidth Control Packet Classification Capabilities Scheduling Best Effort, Real Time Polling Services  NETWORK  MODES Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPv4 and IPv6 simultaneously DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS VLAN 802.10: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging  POWER  INPUT  OUTPUT  48 to 57 VDC via Ethernet port1 (Power over Ethernet) 12 VDC via Access port Power should not be provided simultaneously on both ports	SYNCHRONIZATION						
AES 128 AUTHENTICATION  AES 128 Internal MAC Address Control List, Radius based Authentication (with VLAN and QoS provisioning)  Asymmetric Bandwidth Control Packet Classification Capabilities Best Effort, Real Time Polling Services  NETWORK  MODES P STACK P STACK Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPv4 and IPv6 simultaneously DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS NOURR  NETWORK  NOURR  NETWORK  MODES P STACK GATEWAY FEATURES VLAN BO2.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging  NOURR  NOURPUT  36 to 57 VDC via Ethernet port1 (Power over Ethernet) Power should not be provided simultaneously on both ports		Pass-through IEEE 1588v2 Ethe	ernet Synchronization				
Authentication (with VLAN and QoS provisioning)  Asymmetric Bandwidth Control Asymmetric UL/DL committed and maximum information rate per service flow 802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType Best Effort, Real Time Polling Services  NETWORK  MODES Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IPv4 and IPv6 simultaneously IPv4 and IPv6 simultaneously DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS  VLAN 802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging  POWER INPUT  OUTPUT  48 to 57 VDC – 25 Watt on Ethernet port2 (PoE – software controlled) 12 VDC via Access port Power should not be provided simultaneously on both ports	SECURITY						
Asymmetric Bandwidth Control Packet Classification Capabilities Scheduling Best Effort, Real Time Polling Services  NETWORK  MODES PSTACK GATEWAY FEATURES VLAN BO2.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging POWER  INPUT  36 to 57 VDC via Ethernet port1 (Power over Ethernet) POWER South Controlled) 12 VDC via Access port Power should not be provided simultaneously on both ports  Asymmetric Bandwidth Control 802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType 802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType 802.1p priority, IPTOS, VLAN ID, IP addresses, ports, Ethernet addresses, IP protocol, and EtherType 802.1p priority, IPTOS, VLAN ID, IP addresses, PPTOS IN Ethernet addresses, IP protocol, and EtherType 802.1p priority, IPTOS, VLAN ID, IP addresses, PPTOS ID, IP Addresses, IP protocol, and EtherType 802.1p priority, IPTOS, VLAN ID, IP addresses, PPTOS ID, IP Addresses, IP protocol, and EtherType 802.1p priority, IPTOS, VLAN ID, IP addresses, PPTOS ID, IP Addresses, IP protocol, and EtherType 802.1p priority, IPTOS, VLAN ID, IP addresses, PPTOS ID, IP Addresses, IP protocol, and EtherType 802.1p priority, IPTOS, VLAN ID, IP addresses, PPTOS ID, IP Addresses, IP protocol, and EtherType 802.1p priority, IPTOS, VLAN ID, IP Addresses, PPTOS ID, IP Addresses, IP protocol, and EtherType 802.1p priority, IPTOS, VLAN ID, IP Addresses, IP protocol, and EtherType 802.1p priority, IPTOS, VLAN ID, IP Addresses, IP protocol, and EtherType 802.1p priority, IPTOS, VLAN ID, IP Addresses, IP protocol, and EtherType 802.1p priority, IPTOS, VLAN ID, IP Addresses, IP protocol, and EtherType 802.1p priority, IPTOS, VLAN ID, IP Addresses, IP protocol, and EtherType 802.1p priority, IPTOS, VLAN ID, IP Addresses, IP protocol, and EtherType 802.1p priority, IPTOS, VLAN ID, IP Addresses, IP protocol, and			_ist, Radius based Authenticatio	n (with VLAN and QoS provision	oning)		
Packet Classification Capabilities Scheduling Best Effort, Real Time Polling Services  NETWORK  MODES Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling) IP STACK IP v4 and IP v6 simultaneously GATEWAY FEATURES VLAN BO2.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging  POWER  INPUT  OUTPUT  48 to 57 VDC – 25 Watt on Ethernet port2 (PoE – software controlled) 12 VDC via Access port Power should not be provided simultaneously on both ports	QoS						
MODES	Packet Classification Capabilities	802.1p priority, IPTOS, VLAN ID	o, IP addresses, ports, Ethernet a		nerType		
Bridging (support LACP through external switches), Routing (RIP v2 and IP tunneling)  IP STACK  IP V4 and IP V6 simultaneously  DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS  802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging  POWER  INPUT  OUTPUT  48 to 57 VDC – 25 Watt on Ethernet port2 (PoE – software controlled)  12 VDC via Access port  Power should not be provided simultaneously on both ports		best Ellort, Near Tillie Folling 30	CT VICES				
P STACK GATEWAY FEATURES DHCP Server & relay, NAT with Std ALGs, PPPoE end point with Proxy DNS 802.1Q: Management VLAN. Transparent, Access, Trunk and Mixed mode. QinQ double tagging  POWER INPUT  36 to 57 VDC via Ethernet port1 (Power over Ethernet) 12 VDC via Access port Power should not be provided simultaneously on both ports  12 VDC on Access port Power should not be provided simultaneously on both ports		Bridging (support LACD through	h aytarnal switches) Pouting (DI	Py2 and IP tuppoling)			
36 to 57 VDC via Ethernet port1 (Power over Ethernet) 48 to 57 VDC – 25 Watt on Ethernet port2 (PoE – software controlled) 12 VDC via Access port Power should not be provided simultaneously on both ports 48 to 57 VDC – 25 Watt on Ethernet port2 (PoE – software controlled) 12 VDC on Access port	P STACK GATEWAY FEATURES	IPv4 and IPv6 simultaneously DHCP Server & relay, NAT with	Std ALGs, PPPoE end point with	n Proxy DNS	ing		
controlled)  12 VDC via Access port  Power should not be provided simultaneously on both ports  controlled)  12 VDC on Access port	POWER	INF	PUT		OUTPUT		
		12 VDC via Access port		controlled)	Ethernet port2 (PoE – software		
			* ' '				

ENVIRONMENTAL SPECS	OPERATING TEMPERATURE	STORAGE TEMPERATURE	HUMIDITY - IP RATING	WIND LOADING			
	-40° to 60°C (-40° to 140° Fahrenheit)	-50° to 70°C (-58° to 158° Fahrenheit)	100% relative humidity - IP67	200 km/h (125 mph)			
PHYSICAL SPECS	DIMENSIONS PACKAGED	DIMENSIONS UNPACKAGED	WEIGHT (PACKAGED)	WEIGHT (UNPACKAGED)			
QB-10250-LKX	18.46 × 7.05 × 21.57 in (469 × 179 × 548 mm)	14 × 14 × 3.40 in (371 × 371 × 85 mm)	13.67 lbs (6.2 kg)	7.27 lbs (3.3 kg)			
SAFETY STANDARDS							
	UL 60950, CAN/CSA-C22.2 No. 60950, IEC 60950, EN 60950 (part -1 and -22)						
CERTIFICATIONS							
	USA: FCC 90Y + 15E (UNII 15.247) Canada: IC RSS 102 + RSS 111 + RSS 247 Europe: RED EN 301 489-1 + EN 301-489-17 + EN 301 893 + EN 302 502						
PACKAGE CONTENTS							
	Two power injector and co	oofing kit (Includes all recommen it 111) dongle					
MTBF & WARRANTY	<u> </u>						
		MTBF over 250 000 hours & 2-year warranty with ServPak Extended Support available					

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