

- Velox LE 2410 SR
- Velox LE 2410 SRi
- Velox LE 5810 SR
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Up to 4 x T1 or E1 solution 2.4 and 5.8 GHz License-exempt Digital Radio Links



VELOX LE 10

The convenient, license-exempt wireless solution.

Minimize time and ease to market without compromising on quality of service with the license-exempt Velox LE 10, a carrier-class, 1 to 4 x T1/E1 system providing performance and reliability comparable with licensed band radios but without the regulatory time and cost penalties.

With its rapid deployment, the Velox LE 10 can be operational in one day, earning a Return On Investment (ROI) before other products make it off the drawing board.

Certified and field proven to US, Canadian and international standards, this unique system incorporates advanced proprietary technologies such as software-driven configuration and capacity scalability (voice and data), an onboard spectrum analyzer and an advanced Network Configuration Tool (NCT).

So, if you're looking to minimize capital and operating expenditure while maximizing market reach and revenue, choose the Velox LE 10-and find out for yourself why leading Mobile and Access networks in more than 25 countries worldwide are tuned into our license-exempt wireless solutions.

Feature Overview

The Velox LE 10 offers full duplex, point-to-point T1/E1 and 10Base-T Ethernet wireless connectivity in either the license-exempt 2.4 or 5.8 GHz bands. Software-driven scalability allows capacity (voice/data) to be configured as 1, 2 or 4 x T1/E1 with no physical intervention or new hardware. An SNMP-compliant Network Management Tool (NCT) with an easy to operate Graphical User Interface (GUI) is standard. The split configuration option affords greater transmission range and significant installation cost savings. An all-indoor option is also available for easier and safer maintenance.

Core Benefits

- > Unique, on-demand capacity scalability (field upgradeable) with no hardware or physical intervention required
- > Independent band plans enable co-location of multiple radios
- >Tx and Rx frequency selectable in 1 MHz steps
- > Easy, efficient, accessible Network Configuration (SNMP and GUI)
- > Effective interference clearing and frequency planning using onboard spectrum analyzer
- > No license-related costs and delays
- > Swift network rollout capability, immediate usage and revenue generation
- > Rapid ROI versus fixed line or licensed solutions
- > Near zero downtime, outstanding availability (99.999%)
- > One platform, multiple uses

Key Applications

- > Cellular/PCS backhaul
- > Wireline replacement
- > High speed LAN/WAN/Internet connection
- > Corporate, civil utilities/services and campus networks
- > Service provider network extension
- > Rural telecom infrastructure
- > Redundant link and disaster recovery



All-indoor option

Velox LE 10	2410	5810
General Characteristics		
Frequency Range Data Capacity RF Channel Bandwidth Modulation Method Processing Frequency Plan A Frequency Plan B	2400 to 2483.5 MHz Scalable between 10Base-T Ethernet, 9.5 Mbps aggregate and up to 4 T1/E1 tributaries 18 MHz CCK Direct Sequence Spread Spectrum 2410 & 2458 MHz 2426 & 2474 MHz 5753 & 5822 MHz	
Frequency Plan C Frequency Plan D Transmission Delay Compliance Transceiver Characteristics	Independently adjustable n/a 0.3 ms per FCC Part 15.247 Canad	
Power Output Receiver Sensitivity Maximum Receive Level Antenna Connector	Software adjustable +24 dBm maximum (+20 dBm ETSI regulated areas) 88 for BER = 1x10 ⁻⁶ -30 dBm N-Type Female	
Data Interfaces		
nT1/nE1: • Data Rate • Digital Interface • Connectors • Line Code 10Base-T Interface: • Compliance • Connector	1 to 4 x T1 or E1 Software-selectable ITU-T G.703, CEPT-1, DSX-1 25-way D (Balanced) or BNCs (Unbalanced) B8ZS (T1), HDB3 (E1) or AMI (nE1, nT1) selectable IEEE 802.3 RJ-45	
Digital Unit Control Panel	103 1	
Front Panel LEDs Auxiliary User I/O Wayside Service Channel Element Manager	System, Payload and RF Link summary LED's 2 In (Contact closure), 2 Out (Relays) RS-232; 115.2 Kbps maximum RS-232; 115.2 Kbps fixed	
Power Supply and Environment		
Power: • DC Power • Power Consumption • AC Power Supply Temperature: • Outdoor RF Unit • Indoor RF Unit • Digital Unit Size:	21 to 58 VDC 35 W maximum 110V-240V (External PSU) Operation: -33°C to +60°C Operation: -5°C to +50°C Operation: -5°C to +50°C	
Outdoor RF Unit Indoor RF Unit Lightning Protection: Integral Protection	335mm x 232mm x 125mm, 6.0 kg 1U 19" housing, table top or rack mounting, 3.5 kg RF and Digital Unit	
Standards Compliance		
EMC Operation: Outdoor RF Unit Operation: Digital Unit Storage: Digital & RF Unit Transportation: Digital & RF Unit Radio Frequency Water Ingress	EN 301 4 EN 300 019, 6 EN 300 019, 6 EN 300 019, 6 EN 300 019, 6 EN 300 328 EN 300 328 EC 60529	class 4.1 class 3.2 class 1.2 class 2.3

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Velox LE 10 Features

- > Fully scalable between voice and data
- > Direct Sequence Spread Spectrum technology
- > Scalable between 10Base-T Ethernet, 9.5 Mbps aggregate and up to 4 T1 or E1 tributaries
- > Individually selectable E1 or T1 line codes
- > Transparent Ethernet bridging (learning "store and forward")
- > Available with 1 to 4 x T1 and 1 to 4 x E1 data interfaces
- > G.826 compliant-based error reporting for RF link and line-interface data
- > All-indoor mounting option using only 2U rack space
- > Multiple software-selectable frequency channel plans
- > Network Configuration Tool (NCT) allows full remote and local control/management
- > SNMP support for open Network Configuration (Enterprise and MIB-II)
- > Onboard spectrum analyzer
- > All electrical connections located on front panel for easy installation and access

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