



Lite Family — Features & Benefits

EX-5r Lite, EX-5r-c Lite, EX-5i Lite, EX-2.4i Lite

Models

Carrier-Class, 2.4 GHz and 5 GHz TDD Radio Systems for Low Capacity Ethernet and TDM Applications



EX-5r Lite

- All-outdoor
- Integrated 23 dBi ant.
- +24 dBm output power
- CarrierTDD™



EX-5r-c Lite

- All-outdoor
- Connectorized
- +24 dBm output power
- CarrierTDD™



EX-5i & 2.4i Lite

- All-indoor
- +24 dBm (5i Lite)
- +27 dBm (2.4i Lite)
- CarrierTDD™

Features

- 27 Mbps aggregate user available throughput
- Software upgradeable to 55 or 100 Mbps and 2xT1/E1 or 4xT1/E1
- Native Ethernet and native TDM transport
- 5 GHz tri-band operation
- Selectable QPSK or 16QAM modulation
- Selectable channel bandwidth of 8, 16, 32 or 64 MHz
- 1 MHz tuning resolution
- Selectable 0.5 ms to 5 ms latency, fixed
- Throughput symmetry control up to 80/20
- ExaltSync™ synchronization
- SNMP v1, v2c and v3 management
- 96-bit encryption with optional 128-bit or 256-bit AES encryption (hardware-based)
- 802.1Q VLAN support
- In-band and out-of-band management
- Built-in spectrum analyzer

Benefits

- **Configuration Flexibility (5 GHz)** — The same capacities and capabilities are available in both indoor and outdoor versions – pick the configuration that fits your requirements.
- **Capacity Scalability** — Capacity is software upgradeable all the way up to 100 Mbps / 4xT1, providing investment protection and a “capacity insurance policy.”
- **Guaranteed User Throughput** — Exalt CarrierTDD™ radios can support 99.999% guaranteed availability *and* user throughput for properly engineered paths, so you can be sure that the link will deliver the capacity for which it was designed.
- **Throughput Symmetry Control** — Allows throughput to be allocated evenly or asymmetrically up to 80:20 between uplink and downlink, maximizing bandwidth utilization for asymmetric traffic requirements such as video surveillance.
- **Spectrum Management** — Includes selectable channel bandwidth and 1 MHz tuning resolution, yielding up to 54 non-overlapping frequency channels (8 at 2.4 GHz) and up to 415 center frequencies of operation (62 at 2.4 GHz). In crowded RF environments, narrow, specific gaps of available spectrum can now be exploited without center frequency limitations.
- **Built-in Spectrum Analyzer** — Enables rapid identification of available spectrum, simplifying and speeding deployment time. Compare to standalone analyzers at \$4,000 to \$15,000.
- **High Density Collocation** — ExaltSync allows multiple radios to be collocated in close proximity without self-interference, minimizing antenna separation and ensuring reuse of scarce spectrum.
- **Low, Fixed Latency** — Latency of as low as 0.5 ms can be selected, providing guaranteed performance for latency-sensitive traffic, including mobile voice services and utility infrastructure control.
- **Selectable Latency** — Users can trade off between latency and throughput, enabling guaranteed performance for latency-sensitive applications (low latency setting) or to max spectrum utilization for best effort services (higher latency setting).
- **Native TDM and Ethernet** — Means rock-solid TDM performance regardless of IP traffic behavior. It also means that when T1/E1 ports are added, TDM throughput is traded bit-for-bit for Ethernet throughput and vice versa, so bandwidth is never wasted and there’s never a question about available user throughput for either transport.
- **Backwards Compatibility** — Lite family radios are backwards compatible with their non-Lite counterparts up to the maximum common configuration.