STAR MICROWAVE
Extending the life of your network...

EXalt™

Exalt
Product Solutions

Exalt™

ExtendAir G2	ExtremeAir™ All-Outdoor	ExploreAir® LR Licensed
7 GHz -38 GHz **All-Outdoor Licensed**	**Licensed FCC 11–23 GHz** **Fiber-Speed Microwave Systems for Ring, Aggregation and Core Applications**	**All-Outdoor ITU/ETSI**
ExtendAir G2 features and benefits include: Lowest Total Cost of Ownership. ExtendAir G2 brings affordability and lowest OPEX for a microwave backhaul solution. Its compact all-outdoor architecture uses standards based 802.3at PoE with low power consumption, while a single CAT5 cable for power and data simplifies and reduces installation costs. Installation is worry-free with direct slip-fit antenna interfaces and user manual built into the radio's operating system.	ExtremeAir all-outdoor radios are the world's first ultra-high capacity dual-carrier, zero footprint microwave systems. Capable of operation in the 6 – 43 GHz bands, ExtremeAir is designed to deliver guaranteed full-duplex Ethernet throughput as high as 1000 Mbps over a distance of 24 miles. These all-outdoor microwave systems are rugged, XPIC-enabled, tower-mounted radios requiring no cabinet space..	ExploreAir LR (Long Range) all-outdoor radios are ultra-high capacity, ultra-high system gain zero footprint microwave systems operating in the 6–43 GHz bands. Designed to significantly reduce required antenna diameter and featuring the industry's only field-replaceable diplexers, ExploreAir LR systems offer dramatic TCO savings over competitive alternatives. With XPIC, ExploreAir LR systems can deliver up to 1000 Mbps full-duplex Layer 2 uncompressed throughput in a single channel, delivering the industry's lowest cost per Mbps mile.

2-40GHz EX-s Series Split-Mount	EX-6i / EX-11i All-Indoor, Carrier-Class, Upgradeable Licensed-Band Trunk Radio Systems for Medium and High Capacity TDM and Ethernet Backhaul Applications	EX-4.9i Expandable 2-4xT1/E1 + 100BaseT Licensed Multi-Service Wireless Backhaul
The EX-s series split-mount, software configurable microwave radio systems from Exalt lead the next generation of wireless backhaul technology used by carrier and enterprise customers worldwide. Designed with the same strict carrier-class requirements as the all-indoor EX-i and the all-outdoor EX-r series platforms, the highly flexible split-mount EX-s series radios cover the most ANSI and CEPT licensed and frequency bands from 2 to 40 GHz.	The EX-i Series GigE long-haul microwave radios are carrier-class, fully software configurable systems featuring 3xGbE, 16xT1/E1 and 1xDS3 interfaces in a single unit. The system is designed to natively support combinations of TDM and Ethernet traffic, making it ideal for reliable, efficient transport of both legacy voice and IP-based multimedia traffic for any application, including Long Term Evolution (LTE) of mobile networks.	The EX-4.9i from Exalt Communications is a carrier-class, multi-service wireless backhaul solution for the licensed 4.9GHz public safety band designed for indoor rack-mounted installation. Using state-of-the-art proprietary modulation techniques, the EX-4.9i delivers the highest combined Ethernet and TDM capacity for point-to-point 4.9GHz applications. Starting at 27Mbps and 2xT1/E1, the system can be upgraded to 55Mbps and 4xT1/E1 connectivity with an optional software key, providing simultaneous data and voice interconnection with a choice of proprietary or AES encryption for highly secure emergency response and public safety applications.

EX-2.4i / EX-5i 200Mbps + 4xT1/E1 Wireless Backhaul Microwave Radio	EX-2.4i-16 / EX-5i-16 Expandable 4-16xT1/E1 + 10/100BaseT Wireless Backhaul Microwave Radio	EX-5r/EX-5r-c 200 Mbps + 4 T1/E1 Tri-band Wireless Ethernet Bridges
The EX-2.4i and the Ex-5i extends the advantages of the 2.4GHz ISM band for backhaul applications. Using very efficient proprietary modulation techniques, resulting in a very narrow occupied RF bandwidth, the EX-2.4i provides up to 8 non-overlapping frequency channels. It also provides fine-tuning capability across the entire frequency band, resulting in up to 62 center frequencies of operation with no hardware changes required for retuning. This provides unprecedented interference avoidance capability compared to all other carrier-class systems in this band.	As the only 2.4GHz system with software expandability from 4 to 16 T1/E1 plus 100BaseT, the EX-2.4i-16 wireless backhaul microwave radio extends the advantages of the license-exempt 2.4GHz band to provide maximum TDM capacity, IP functionality, and minimal latency for the most demanding carrier-class backhaul applications.	The EX-5r and EX-5r-c are the only carrier-class, tri-band, wireless Ethernet bridges that extend and combine the advantages of all available license-exempt 5GHz bands to provide maximum functionality for demanding outdoor wireless connectivity and backhaul applications.

EX-4.5r Series GigE **All-Outdoor, Carrier-Class, 4.5 GHz Gigabit Ethernet Radio System for Secure Government and NATO Communications**	EX-4.9r/EX-4.9r-c **Expandable 2-4xT1/E1 + 10/100BaseT Licensed Multi-Service Wireless Ethernet Bridge**	ExtendAir® **All-Outdoor 24 GHz Fast Ethernet/TDM Microwave Systems for Business Critical All-Outdoor Applications**
The EX-4.5r GigE all-outdoor microwave radios are the first carrier-class, high capacity point-to-point microwave radios in the 4.5 GHz Federal and NATO band. The systems support up to 440 Mbps aggregate user throughput and distances greater than high-capacity millimeter wave radios, including e-Band systems.	The EX-4.9r and EX-4.9r-c from Exalt Communications are carrier-class, all outdoor, multi-service Ethernet bridges for the licensed 4.9GHz public safety band. Using state-of-the-art proprietary modulation techniques, the EX-4.9r and EX-4.9r-c deliver the highest combined Ethernet and TDM capacity for point-to-point 4.9GHz applications. Starting at 27Mbps and 2xT1/E1, the system can be upgraded to 55Mbps and 4xT1/E1	ExtendAir all-outdoor 24 GHz systems are the shorter-range, higher capacity alternative to ExtendAir 5 GHz systems and the flexible, license-free alternative to ExtendAir Licensed 23 GHz systems. Delivering guaranteed Ethernet throughput and toll-quality voice in urban and suburban environments, these TDD-based systems support 200 Mbps aggregate Ethernet throughput and optional native 4xT1/E1. ExtendAir is designed to meet the business critical performance, capital and operating requirements of enterprises, government organizations and service providers.

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