

Featured Technology of the Month

RAD's Airmux-400 high-capacity wireless multiplexer is a carrier-grade, point-to-point transmission system that connects Ethernet, T1/E1 and fractional serial circuits between two distant sites via wireless broadband. Wireless Carriers and Service Providers use the Airmux 400 to extend wireless service to remote/rural locations. Typical applications include cellular backhaul, emergency services and temporary deployment, wireless backup, voice traffic extension over wireless, and lossless hot spot backhauling.

The new software release (version 2.4.50) of the Airmux-400 increases throughput to up to 100 Mbps full duplex (200 Mbps aggregated) on the 40 Mhz channel band, with a maximum transmission distance of up to 75 miles (120 kilometers). Key Airmux-400 features also include:

- Multiband operation over 2.4, 4.9 and 5.3-5.8 GHz frequencies.
- Single box support for Ethernet combined with 4, 8, or 16-user TDM ports – which helps carriers transition from legacy to IP at their own pace.
- Advanced Encryption System (AES) to safeguard the wireless transmission against possible attack.
- MIMO and OFDM technologies for superior spectral efficiency.
- An advanced spectrum view tool that displays traffic levels in available frequencies, making it easy to identify the cleanest channel for transmission.
- Hub-Site Synchronization (HSS) capability, which synchronizes all radios to transmit and receive simultaneously in multipoint-to-point applications.
- Support for Monitored Hot Standby (MHS), which provides automatic failover to a pre-set secondary link in the event of equipment failure or temporary loss of air interface.
- Selectable antenna modes for different availability and transmission speeds.

The Airmux-400 is the ideal choice for carriers seeking cost-effective backhaul solutions. While demand for mobile bandwidth and migration to 3G and 4G networks will require carriers to significantly increase their backhaul capacity, they cannot expect a similar growth in Average Revenue Per User (ARPU) and therefore need backhaul solutions to keep OpEx and CapEx to a minimum. The Airmux-400 enables carriers to accommodate capacity growth and maintain profitability through unparalleled price and excellent performance.

As the featured technology of the month, the Airmux-400 comes with "RADcare" built-in. This includes 2 years of RADcare Level 2 support, Next business day parts replacement, 24/7/365 priority telephone support, and free Software updates.

Please contact us at savings@pulsewan.com if we may assist you in any way or you would like to review a potential application.



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