

AVIAT NETWORKS

SECURE AND RELIABLE MICROWAVE SOLUTIONS SPECIALIST



SMARTER MICROWAVE NETWORKING SOLUTIONS

With over 50 years of industry experience, Aviat Networks knows microwave transmission better than anyone, and now we are delivering the next generation of Mission Critical microwave networking solutions that bring together high performance radio transmission, advanced data networking and smart network evolution to all-IP.

MISSION CRITICAL NETWORKS FOR FEDERAL GOVERNMENT

Federal government agencies face tough challenges for their network deployments, driven by tough security standards alongside high reliability requirements for mission-critical video, voice and data services. In keeping up with the demand for secure and reliable network communications, Aviat Networks is actively delivering innovative networking solutions to Federal government agencies that are demanding proven equipment and services from trusted partners. Aviat's radios and management system are deployed in tactical, fixed-mobile and fixed-permanent wireless microwave application within the US and abroad.



- Microwave Transmission Coverage of all NTIA licensed bands
 - Only NTIA/NATO compliant all-indoor microwave radios covering 4400-5000 MHz band
- Strong Security Suite includes:
 - Advanced Secure Management of radio
 - Validated FIPS 197 payload encryption, up to AES 256-bit
 - Centralized Authentication Support via RADIUS client

www.aviatnetworks.com/security
- FIPS 140-2 Level 2 NIST Validated (Certificate # 2869)
- NTIA (SPS/IRAC) and DoD JF-12 Certified
- Listed on various Agency Approved Products List (APL) to include

- DISA UC APL
- Information Assurance (IA) Evaluated and Authorization to Operate (ATO) Received by Agencies.
- Most advanced nodal point-to-point microwave transmission technology available
- Designed, Built and Supported in the US



TM: A Certification Mark of NIST, which does not imply product endorsement by NIST, the U.S. or Canadian Governments.

THE AVIAT ADVANTAGE - SMARTER, SMALLER, SIMPLER

SMALLER, MORE RELIABLE AND SECURE RADIOS

Aviat's portfolio of compact, highly reliable microwave radios deliver exceptional RF performance across multiple frequency bands supporting advanced features such as ACM, XPIC and header compression. Our Strong Security solution is FIPS 197 and FIPS 140-2 Level 2 validated – delivering both management AND payload encryption for the highest level of microwave communication security for a microwave radio link - that is integrated and embedded into the Eclipse radio platform.



	ECLIPSE	IRU 600	ODU 600	WTM 3300	WTM 6000	CTR 8500/8300	CTR 8600
DESCRIPTION	Microwave indoor, nodal switch with Strong Security for broadband networks	Mission critical reliability, High performance all-indoor RF unit	High performance outdoor RF unit with Adaptive Coding and Modulation (ACM)	Super-compact E-Band radio with embedded antenna for urban backhaul, small cell	Ultra-high capacity trunking transmission platform, hybrid mixed mode: STM-1 and GigE	Purpose-built Microwave Router: Merges microwave indoor unit with cell site router	Resilient Microwave Router for mission critical applications (public Safety and Enterprise)
ARCHITECTURE	Nodal microwave, Indoor, Modular, Protected	All-indoor RF Unit with low-loss ACU for N+N; 4 to 11 GHz	Outdoor RF unit: 5 to 42 GHz; Scalable up to 1024QAM	Zero-footprint, all-outdoor weatherproof design for ultra-high capacity (up to 1 Gbit/s)	Up to 16 RF channels in a single sub-rack chassis, supports ACCP, ACAP and CCDP with/without SD	Indoor, Nodal, Modular; Dual radio interface All Outdoor (CTR 8380)	Indoor, Modular, environmentally hardened (2RU); Carrier-class reliability
KEY FEATURES	Native E1/T1, STM1/OC3, Carrier Ethernet, Ethernet OAM; FIPS 140-2 Level 2	Highest power, Compact design for protected RFU + ACU (1+0/1+1/SD 1+1), Exceptional reliability	Flexible Power Mode (FPM) for base and high Tx power on command	Invisible antenna and Fast Connect ports for GigE and Power, Ordinance – friendly design for urban deployments	Up to 4.5 Gbit/s of STM-1 and/or IP traffic; Advanced Ethernet features, incl. L1LA; up to 512QAM	T/E1, GigE; Pseudowire, Carrier Ethernet/L2 services, L3 Services: IP/MPLS, IPv4/IPv6, VPLS, LDP, RVSP-TE, RIP/OSPF/BGP	T1/E1, GigE; Pseudowire, Carrier Ethernet/L2 services, L3 Services: IP/MPLS, IPv4/IPv6, VPLS, LDP, RVSP-TE, RIP/OSPF/BGP

MISSION ORIENTED MICROWAVE APPLICATIONS

- High capacity wireless backhaul transport for IP/MPLS, Carrier Ethernet and TDM/IP hybrid networks
- Alternative to, extension from or redundancy for fiber networks
- Leased Line replacement
- Proven and integrated backhaul for legacy and advanced LMR networks
- Highly reliable (99.999+% availability) and highly redundant (no single point of failure) mission critical networks
- Secure private networks for Federal OCONUS networks
- High speed, low latency applications on large DOD range operations
- Video Surveillance, Border Security, Traffic Monitoring
- Voice, data and video transport for border and perimeter security
- Emergency Communications, Disaster Recovery, and Emergency Restoration
- Point-to-Point communications for First Responders
- Ultra High Capacity wireless trunking solution transporting up to 4.5 Gbit/s of STM-1 and/or IP traffic over up to 16 RF channels
- Advanced Layer 1, 2 and 3 standards-based Ethernet functionality
- Secure over-the-air encrypted communications up to 256-bit AES via on board FIPS validated system

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