22 June 2026

Technical Specifications FIPS Microwave License for a system with Aviat Networks Eclipse Version 8.03.44 software.

EZG-42 Strong Security FIPS 140-2 Compliant + EZG-42

The Federal Information Processing Standard (FIPS) Publication 140-2 is a U.S. Government computer security standard used to accredit cryptographic modules. Specifications include:

- FIPS Level 2 Compliance.
- Hardware Modules: INUe chassis + NCC + at least one RAC + FIPS kit and seals.
- Licensing: EZG-42 "Strong Security" license enabling Secure Management, Payload Encryption, RADIUS Integration, Software Integrity Verification, ability to operation in FIPS mode enabling Level 2 Compliance.
- All-in-one next generation dual hybrid and packet microwave radio.
- Networking features to address cost-optimized mobile backhaul, public, and private networking applications, along with high performance RF and Carrier Ethernet capabilities.
- A complete set of microwave nodal networking capabilities.
- Multi-directional integrated microwave switching within a single system, supporting up to 6 RF or up to 45 Ethernet radios in a single rack unit.

Upgrade Payload Encryption EZG-04

Payload encryption is supported under fixed or adaptive modulation. Payload encryption is an independent, licensed feature. It does not depend on the activation of other strong security options. Specifications include:

- AES-CCM cipher suite includes AES counter mode data encryption and CBCMAC data integrity validation.
- Encryption is through 128, 192 or 256 bit keys (AES 128/192/256 CCM).
- Each link has a randomly generated encryption key. Keys are exchanged through a DTLS tunnel (Datagram Transport layer Security).
- A user configurable key change option specifies the maximum time a particular key can be used. Key change is errorless.
- A user-configurable link ID for key generation ensures that only radios that belong to the link can negotiate an encryption key.