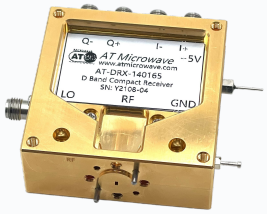
Waveguide Tx Rx Modules up to 500 GHz



TECHNICAL SPECIFICATIONS

- **Frequency coverage**
  DC to 500 GHz across multiple waveguide bands (WR15, WR12, WR10, WR8, WR6)
- **Receiver modules**
  Low-noise front-end designs optimizing sensitivity and dynamic range
- **Impedance matching**
  Optimized VSWR performance across operating bandwidth
- **Modularity**
  Available as standalone transmitters, receivers, or integrated transceivers for flexible system integration
- **Transmitter modules**
  Integrated amplification stages with controlled output power characteristics
- **Transceiver configurations**
  Integrated Tx/Rx solutions up to 98 GHz with switchable or simultaneous operation
- **Interface standards**
  SMA connectors for control and monitoring; waveguide outputs for RF signal delivery

APPLICATIONS

SATCOM systems: High-frequency uplink and downlink modules for satellite communication networks	Defense and military radar: Millimeter-wave and sub-millimeter sensing platforms requiring compact RF frontends	6G research: Evaluation and prototyping of next-generation wireless systems operating in unexplored frequency bands
Automotive radar: Advanced driver assistance systems leveraging higher-frequency bands for improved resolution	Medical imaging: Sub-terahertz diagnostics and material characterization applications	Industrial inspection: Non-destructive testing utilizing high-frequency penetration properties