

Picoradio MIMO Nx OEM Module

Advanced Smart Radio



Picoradio MIMO Nx actual size
40x75x10mm / 25 grams

- Autopilot control / telemetry
- HD Video downlink bandwidth (multiple simultaneous channels)
- Manual control of aircraft and payloads
- 5+ mile range
- Wide range power input: 5-58V
- 1W COFDM RF output, 2x2 MIMO
- Aux power output: 12V@ up to 3A
- Three ethernet interfaces (LANx2 / WAN / bridged)
- Dual Serial Ports
- USB Slave (switchable), RNDIS ethernet+serial over USB
- User Processor (Arduino IDE) with ethernet/serial/CAN Bus/I2C
- SBUS In / SBUS Out
- Pixhawk Compatible

FREQUENCIES AVAILABLE

• 900 MHz ISM 2x2 MIMO | Tri-Band 1.6, 1.8, 2.0GHz 2x2 MIMO | Dual-Band 2.4/5.0-5.9 GHz 2x2 MIMO | AES-128/256 Encryption*

Picoradio OEM Module



Picoradio actual size
40x40x10mm / 17.6 grams

- Autopilot control / telemetry
- HD Video downlink bandwidth (multiple simultaneous channels)
- Manual control of aircraft and payloads
- 5+ mile range
- Wide range power input: 5-58V
- 1W COFDM RF output
- Aux power output: 12V@ up to 2A
- Two ethernet interfaces (LAN / WAN / bridged)
- Dual Serial Ports
- Compatible with our SBUS Modules and our Picoraptor HD
- Pixhawk Compatible
- AES-128 Encryption standard (AES-256 for qualified customers)

FREQUENCIES AVAILABLE

• Dual-Band 900 MHz / 2.4 GHz | 2.4 GHz | 2.4 GHz MIMO | 2.3 GHz. MIMO | 1.8 GHz

DUAL TRACKING ANTENNA



Our compact and low cost tracking antenna plus base station is integrated with our Picoradio MIMO radio solution (can be supplied with other Picoradio options). It is an ideal dual long range antenna MIMO base station solution for long range communications. It features quick release customizable antenna support arms, and packs down compactly for transport.

- Optional internal high power RF amp (dual or single channel)
- Dual long range antennas
- 3rd omni antenna with antenna switch for short range comms
- 360 Degree Continuous Pan
- External power, 8-58V input (higher input voltage for amp configuration)
- Pixhawk, MAVLINK / NME A compatible
- RC Receiver can be mounted internally, SBUS sent over secure link

See our other products such as:

- Picocamera global shutter camera with IP encoder
- Picoraptor video encoder
- SBUS modules for manual control over Picoradio
- Raptor4KIR dual zoom camera payload (we can also create custom gimbal payloads)

*AES-128 Encryption standard with Picoradio / Picoradio NX (AES-256 available to qualified customers)