

## Artificial Intelligence Radio Transceiver (AIR-T)

### AIR-T Edge Series Product Line



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**Key Specifications** 

#### • Dual Channel MIMO Transceiver

- Receiver (2 channels):
  - 100 MHz bandwidth
  - 30 MHz to 6 GHz
  - 52 dB Gain (2.2 dB noise figure)
- Transmitter (2 channels)
  100 MHz bandwidth Tx (per channel)
  300 MHz to 6 GHz
  - +6 dBm Max Output Power

#### • Environmental:

- Temperature: -40C to +85C

#### • GPSDO:

- 40 ns Timing Accuracy (to UTC)
- 8 anti-jam countermeasures against CW
- GPS, GLONASS, Galileo, QZSS, SBAS

- Digital Signal / Deep Learning Processors
  - NVIDIA Jetson TX2i
    - ARM Cortex-A57 CPU (4 core)
      - NVIDIA Denver2 CPU (2 core)
      - **NVIDIA Pascal GPU (256 core)**
    - 8 GB of memory
  - Xilinx Artix 7 200T FPGA
  - Data Recording / Storage:
    - 512 GB Flash Storage
  - Connectivity
    - GPS Sync via 1 PPS and 10 MHz
    - USB 3.0, USB 2.0/3.0
    - 1 Gbps Ethernet
  - Power Consumption:
    - 25 Watts Max (14 Watts Typical)

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