

**PRODUCT BRIEF**

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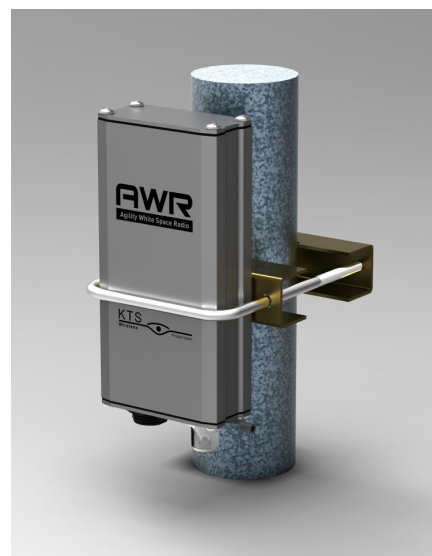
## Agility White Space Radio

**DESCRIPTION:**

The Agility White Space Radio (AWR) supports the UHF band. The UHF AWR is currently approved as a fixed TV band Device (TVBD) under Part 15, Subpart H of the FCC Rules. A wide variety of applications are supported including Video Surveillance, SCADA and broadband wireless Internet access. The radio may be used to create Point-to-Point (PTP), Point-to-Multipoint (PTM) or simplex (one-way) networks with support for any type of IP traffic including voice or video. The AWR is approved to operate with the FCC-approved TV White Space (TVWS) System database service provided by Spectrum Bridge, Inc (SBI). A TVWS database client is provided in the AWR. The TVWS server automatically assigns the operating frequency to all AWRs within a network, based on TV channel availability at device operating locations.

**FEATURES:**

- Agile RF Modules from 145 to 700 MHz
  - UHF – 470 - 698 MHz (14-51)
- Data Rates of 3.1 MB/s
- 6 MHz Channel Size
- Up to 27.5 dBm EIRP
- Automatic Transmit Power Control (ATPC)
- FCC Part 15 Subpart H compliant
- Ethernet Port with bridging
- Indoor or Outdoor mounting Options
- Operates in the “White Space” spectrum\*



Contact SineCom for your specific requirements or custom design services.


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The Ethernet port functions as a bridge for IP subnets via the wireless link. The advanced Media Access controller supports polled access for maximizing both upstream and downstream throughput. Remote management is supported over-the-air with Agility White Space Radio Element Manager.

**SPECIFICATIONS:****Electrical**

|  |                                   |
|--|-----------------------------------|
| RF Module frequency (Model AWR-US-U-100) | 470 - 698 MHz (TV Channels 14-51) |
| RF Transmit Power                        | 10 to 21.5 dBm with ATPC          |
| Noise Figure                             | 4 dB                              |
| Spurious & Harmonic Emissions            | FCC Part 15 compliant             |
| Data Rates                               | 3.1 MB/s                          |
| Modulation                               | SOQPSK                            |
| Channel Bandwidth                        | 6 MHz                             |
| Frequency Selection                      | 100 kHz steps                     |
| Selectivity                              | >60 dB                            |
| Operating mode                           | Half-duplex or simplex            |
| User Port                                | Ethernet (10/100 BT)              |

**Mechanical**

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Dimensions (excluding connectors) | 80 x 170 x 38mm (3.15 x 6.7 x 1.5")   |
| Enclosure material                | AL, TCP coating                       |
| Weight (w/o mount)                | 0.54 kg (1.2 lb)                      |
| Mounting                          |                                       |
| Hub                               | Optional bracket for DIN rail or wall |
| Remote/Subscriber                 | 1" – 2" pole mount bracket            |
| Connectors                        |                                       |
| Antenna                           | Type N (F)                            |
| Ethernet/Power (12 to 24 VDC)     | Watertight RJ45                       |

**Environmental**

|                             |                                    |
|-----------------------------|------------------------------------|
| Operating Temperature Range | -30 to 60° C                       |
| Operating Humidity          | As encountered in outdoor mounting |

**Power**

|                  |  |
|------------------|--|
| Input Voltage    | 12 to 24 VDC, via Ethernet cable (PoE) |
| Current (12 VDC) | 0.4 A (RX), 1.6 A (TX)                 |

*Specifications subject to change without notice.*