

PRODUCT BRIEF

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Agility Telemetry Radio

DESCRIPTION:

The Agility Telemetry Radio (ATR) includes 2 models that offer user-configurable data rates, channel bandwidths and operating frequency. The ATR is supplied with a VHF or UHF RF Module and operates on any channel within the approved bands. A wide variety of applications are supported including SCADA, Video Surveillance and Voice over IP. The radio may be used to create Point-to-Point (PTP), Point-to-Multipoint (PTM) or simplex (one-way) networks with priority routing support for voice, compressed video and SCADA traffic. Ethernet and RS-232 interfaces are available.

The ATR operates in both licensed and secondary-use spectrum. Local and remote network management is provided through a local TCP IP connection over the air. Management is provided through a PC-based Element Management System (EMS) provided.

FEATURES:

- Data Rate, Channel Size and Frequency Agile
- Channel Sizes from 6.25 to 50 KHz
- Agile RF Modules from 145 to 700 MHz
 - VHF: 150 to 174 MHz and 217 to 220 MHz
 - UHF: 450 to 512 MHz
- Data Rates from 2.4 to 68 kbps
- Up to 37 dBm transmit RF power
- FCC Part 15 and 90 and ETSI 300-113-1 compliant*
- Ethernet Port with bridging
- RS-232 Serial Port
- SW upgradable (Local or over-the-air)
- 2 and 4-FSK Modulation



Contact SineCom for your specific requirements or custom design services.

AGILITY DATA RADIO SERIES

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The Ethernet port functions as a bridge for IP subnets via the wireless link.

The ATR is available with an optional, custom Daughterboard. Contact SineCom for applications and capabilities.

SPECIFICATIONS:

Electrical

Model Numbers

VHF version

ATR-V-100

UHF version

ATR-U-100

RF Transmit Power

10 to 37 dBm

Noise Figure

4 dB

Spurious & Harmonic Emissions

FCC Part 15 & 90 compliant*

Data Rates

2.4 to 68 kb/s, SW configurable

Modulation

2-FSK, 4-FSK

Channel Bandwidths

6.25, 12.5, 25, 50 kHz

Frequency Selection

6.25 kHz steps

Selectivity

>80 dB

Operating mode

Half-duplex or simplex

User Ports

RS-232 (DCE); Ethernet (10/100 BT)

Mechanical

Dimensions (Excluding connectors)

80 x 155 x 38mm (3.15 x 6.1 x 1.5")

Enclosure material

AL, TCP coating

Weight (wall mount)

0.54 kg (1.2 lb)

Mounting Bracket (Optional)

DIN Rail or wall. Available with optional fan

Connectors

Antenna

SMA or BNC (F) via adapter provided

Serial

DB9 (F)

Ethernet

RJ45 (F)

Power/Fan

3-position terminal block (provided)

Environmental

Operating Temperature Range

-30 to 60⁰ C

Operating Humidity

Up to 95%, non-condensing

Power

Input Voltage

9-24 VDC

Current

0.5 A (RX), 2.5 A (TX)

Connector/Fan

Terminal block

Specifications subject to change without notice

**FCC and ETSI Approval pending*