



# Manitou Systems Inc.

**Lunar-Link™**

RF Amplifiers  
for Demanding Modes



## ATLAS 1000

50MHz - 144MHz - 432MHz

SINGLE BAND  
SOLID STATE RF POWER AMPLIFIERS

**This State of the Art RF power amplifier easily integrates into any amateur radio station.**

- 1000 (continuous) watts output on 50 and 144MHz models (w/15 watts drive power)
- 800 (continuous) watts output on 432MHz models
- Microprocessor controlled
- Cooling fan speed automatically regulated by heat sink temperature
- The RF power section uses a rugged Mosfet transistor in a push-pull configuration
- Single, integrated unit includes the RF amplifier, power supply and, coaxial relays
- Front panel mounted LCD provides visual monitoring of critical parameters
- Simple connections: AC mains, keying, transceiver and, antenna

[WWW.MANITOUSYS.COM](http://WWW.MANITOUSYS.COM)

# Atlas 1000 Specifications

- Operational Frequency 50>52MHz or 142>146MHz or 430>444MHz
- RF Drive Power 14>16 watts ( 142>146MHz )
- Output Power 1000 watts continuous ( 50 and 144MHz models )  
800 watts continuous ( 432MHz model )
- RF Power Transistor MRFE6VP61K25H Mosfet
- Operational Modes FM , CW, SSB, Digital
- Operating Class AB (linear )
- Output Harmonics At or equal to -70dBc
- Input / Output Connectors Type N
- Keying Connector Type RCA female
- SWR Protection Limit set @ 100 watts +/- 0.5dB
- Output Power Protection Limited to 1000 watts +/- 0.2dB
- Temperature Protection Limit set @ 75 degrees C ( measured at the Mosfet device
- Ambient Temperature Protection Limit set @ 40 degrees C
- Maximum Humidity Not to exceed 80% non-condensing
- Cooling Forced air via 2 fans
- Display / Controls LCD, 4 lines / 2 push button switches
- Physical size / Weight 4.2 "H X 14.75 "W X 11.8 "L / 14 lbs
- Country of Manufacture Italy (by ITALAB SRL)
- Order Part Number
 

50MHz	Model AR-50	PN 00010198
144MHz	Model AR-144	PN 00010164
432MHz	Model AR-432	PN 00010199



*The 50MHz model is not yet approved by the FCC. This device is not and may not be offered for sale until FCC approval is obtained.*

**MANITOU SYSTEMS, INC.**  
Danbury, CT USA

Tel.203.733.2110 Fax.203.746.1459

Email: [info@manitousys.com](mailto:info@manitousys.com) Web: [www.manitousys.com](http://www.manitousys.com)

March 2016

*Technical specifications are subject to change without prior notice. See our web site or contact us directly for the latest specifications and pricing.*