

Announcing
a milestone in
Amateur Radio
Manufacturing

OVER 16,000
ATLAS 210x
TRANSCEIVERS
SOLD IN 5 YEARS

To mark this impressive accomplishment, Atlas is producing a special model of this remarkable transceiver.



ATLAS 210x
LIMITED EDITION

With these added new features:

- Receiver Incremental Tuning (RIT)
- CW coverage of 10 meters
- Power increased to 250 watts
- Special front panel with commemorative gold name plate

With over 16,000 210x/215x's in the field, we're showing our appreciation by offering this special Limited Edition 210x with its new features, at no increase in price.

But this is a limited edition, so see your dealer soon!

 **ATLAS**
RADIO INC.

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ATLAS 210x/215x SPECIFICATIONS

GENERAL. Frequency Coverage with Internal VFO: 1800-2000 kHz, (Model 215x only), 3500-4000 kHz, 7000-7500 kHz, 14,000-14,500 kHz, 21,000-21,500 kHz, 28,000-29,000 (Model 210x only). **Note** that the 10 meter band may be easily owner adjusted to cover any 1000 kHz segment.

Frequency Control: highly stable VFO common to both receive and transmit modes. Tuning dial calibrated in 5 kHz increments with 1 kHz increments on skirt of tuning knob, except on 10 meters where increments are 10 kHz and 2 kHz, respectively. Tuning rate is 22 kHz per revolution.

Frequency Stability: less than 1 kHz drift during first 30 min (2 kHz max. on 10 meters). Less than 300 Hz per hour after 30 min. Less than 100 Hz shift from 11 to 14 volts supply. **External Frequency Control:** rear socket provides for plug-in of external VFO or crystal oscillator for separate control of transmit and receive frequencies or for network and MARS operation.

Frequency Coverage with Crystal Oscillator: (1800-3000 kHz, Model 215x only), 3000-5200 kHz, 5800-10,000 kHz, 13,800-14,900 kHz, 20,600-21,600 kHz, 28,000-30,000 kHz, (Model 210x only). **Completely Solid State:** includes 4 I.C.'s, 18 transistors, 32 diodes.

Modes of Operation: SSB with selectable sideband, and CW. Normal sideband position is LSB on 160, 80 and 40 meters, USB on 20, 15, and 10 meters. Automatic off-set frequency on CW transmit. **Modular Construction:** Plug-in PC boards for R.F., A.F. and audio circuits. **Plug-in Design:** rear connectors are designed so transceiver plugs into Mobile Mounting Bracket, or AC Console. Connectors are standard: SO-239 coax. antenna jack, ¼ in. diam. 3 circ. jacks for Mic. and external speaker or headphones, ¼ in. diam. 2 circ. jack for CW key 9 pin Noval sockets for Ext. Osc. and Aux. Linear control. **Power Supply Requirements:** 12-14 volts D.C. negative ground only. Terminal P1 is high current circuit for power amplifier. 16 amps. peak in transmit mode. Terminal P2 is low current circuit for receiver and low level stages, draws 300 to 600 ma. in rec. and trans. modes. **Finish:** vinyl covered aluminum cabinet, black. Anodized aluminum panel. **Dimensions:** 9½ in. (24.1 cm) wide, 3½ in. (8.9 cm) high 9½ in. (24.1 cm) deep. **Weight:** 6 lbs. 14 oz. (3.1 kg) net. 8 lbs. 6 oz. (3.8 kg) shipping.

RECEIVER SPECIFICATIONS: Circuit Design: Direct conversion of signal to 5645 kHz. A.F. using double balanced diode ring mixer providing exceptional immunity to overload and cross modulation. **Sensitivity:** requires less than 0.4 microvolts for 10 db signal-plus-noise to noise ratio, 160 through 15 meters. Less than 0.6 microvolts on 10 meters. **R.I.T.** Receiver Incremental Tuning is a standard feature and permits receiving up to 5 kHz

above or below your transmit frequency. **Selectivity:** Crystal ladder 8 pole filter. **Bandwidth:** 2700 Hz at 6 db down 4300 Hz at 60 db, and only 9200 Hz at 120 db. Ultimate rejection greater than 130 db. 1.6 shape factor. **Image Rejection:** Better than 60 db. **Internal Spurious:** Less than equivalent 2 microvolt signal. **AGC:** Audio output constant within 4 db with signal variation from 5 microvolts to more than 3 volts. **Overdrive Gain:** Less than 1 microvolt for 0.5 watts audio output (CW carrier 1000 Hz heterodyne.) **Audio Output:** watts at 10% distortion 300 to 3000 Hertz, plus or minus 3 db. **Internal Speaker:** 3 in. 4 ohm .68 oz. magne Rear jack permits plug-in of external speaker or low impedance headphones. AC console automatically disconnects internal speaker and connects front facin speaker. Plug-in Mobile Mount provides for automatic connection of external speaker if desired. **Meter:** React 'S' units from 1 to 9, plus 10 to 50 db. **Calibrator:** Provides calibration markers at 100 kHz increments on tuning dial. **Dial Set:** Permits adjustment of dial scale calibration.

TRANSMITTER SPECIFICATIONS: Circuit Design: Broadband design eliminates transmitter tuning. Sing conversion produces minimum spurious mixing products. 2 section low-pass filters on each band provide excellent harmonic and TVI suppression. ALC with pan adjustment. Infinite SWR protection. **Frequency Control:** Internal VFO automatically transmits exactly on receive frequency. Rear socket provides for plug-in external VFO or crystal oscillator accessory (Model 11 XB), for separate control of transmit and receive frequencies, or for network and MARS Operation. **Power Rating:** 250 watts P.E.P. input, and CW input, (50 ohm nonreactive load and 14 DC supply Voltage) 16 through 15 meters, 150 watts on 10 meters. RTTY SSTV Power Rating: Approx. 90 watts input, dependir on heat sink ventilation. Small fan recommended. Unwanted Sideband: More than 60 db down at 1000 Hz audio input. **Carrier Suppression:** More than 50 c down. **Third Order Distortion:** Approx. 30 db below peak power. **Harmonic Output:** More than 40 db below power peak. **CW Transmit:** Manual send-receive. Serr break-in with CW accessory installed in AC console. Automatic off-set transmit freq. **Transmit Control:** Press-to-talk with Mic. button, or manual transmit w/ panel switch. Automatic voice control when VOX is installed in AC console. **Microphone:** Dynamic or Crystal high impedance. Required ¼ in. diam. 3 circ. phor plug. **Audio Fidelity:** 300 to 3000 Hz. plus or minus db. **Meter:** Reads P.A. collector current, 0-16 amp. **Linear Amplifier Control:** Aux. socket on rear provide for keying of linear