

# High Performance 1 kW Linear Amplifier with a 2 × 6 Automatic Antenna Selector

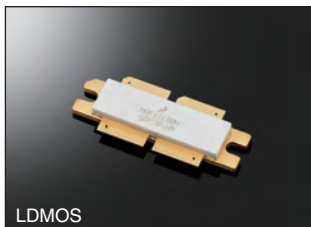


Controller detached configuration with needle type meter screen example

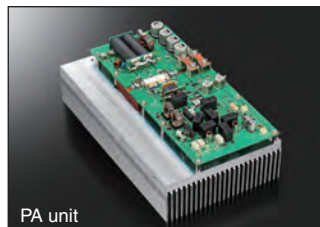
## Full Power and Full Duty Cycle Operation

A 65 V LDMOS module is used for the final AMP. It effortlessly provides 1 kW output\* at full duty cycle.

(\* 180–264 V AC required)



LDMOS



PA unit



Controller attached configuration with bar type meter screen example

## Detachable Controller with Color Display

Supplied 3 m, 9.8 ft remote control cable enables the amplifier to be mounted in away from the radios for a big station installation, in a small shack space.

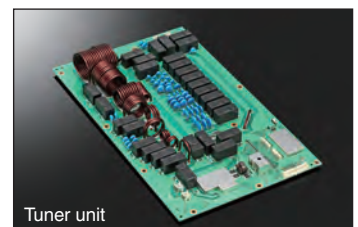
The 4.3 inch color screen is a touch screen with a graphical user interface. Connected antennas are graphically shown on the display for easy recognition.



Antenna select screen example

## Built-in Automatic Antenna Tuner

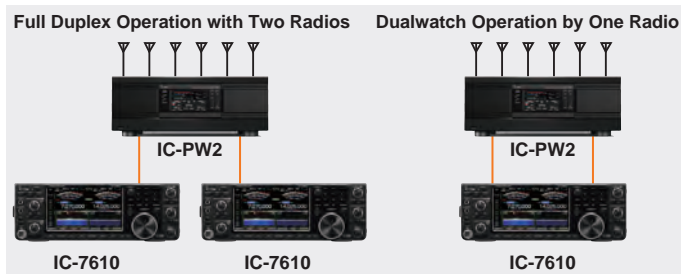
Built-in automatic antenna tuner can match the impedance of the antenna to send maximum power, and reduce the reflected power to avoid damage. Also, by using mechanical relays, you can quickly change the operating band that has been tuned before. (2 to 3 seconds on average)



Tuner unit

## 2 x 6 Automatic Antenna Selector

Two radio input connectors and six antenna connectors provide fully automatic antenna switching capabilities. Each antenna can be switched independently in conjunction when changing bands on the radios. Moreover, even when transmitting on one radio, the other radio can receive on a different band with the Transmitter lockout function. As a result, Single Operator Two Radios (SO2R) operation in a contest can be realized with one IC-PW2.



## Rx In/Out Connectors for External Equipment

User supplied bandpass filters (BPF), preamps and attenuators can be connected to the [Rx In/Out] connectors. When two radios are used with the IC-PW2, one multi-band BPF can be shared with these radios by switching the receiving radio, according to the transmission switching. In addition, the [BAND 1], [BAND 2] data output terminals can separately change the band of connected external equipment.

## Other Features

- High-efficiency and low noise cooling system
- With current Icom radios, various settings are easy, and you can get the full performance of the IC-PW2
- Effortless operation, even when connected to non-Icom radios
- A LAN port for remote control operation from a PC\*
- Various error detection circuits protect internal components
- An SD card slot on the front panel for firmware updates, and so on
- [Remote 3] AUX jack for an antenna control with a CI-V commands
- Antenna quick select function temporarily set to the preset antenna connector such as for using a multi-band antenna or a dummy load
- TX radio selection from a contest logging software

\*Software is in planning at this stage.

## SPECIFICATIONS

	IC-PW2
Frequency coverage	1.8, 3.5, 7, 10, 14, 18, 21, 24, 28, 50 MHz amateur bands
Output power	1 kW (180–264 V AC), 500 W (90–132 V AC)
Driving power	Max. 100 W (Icom 100 W HF transceivers available)
Power supply requirement	90–132 V AC (50/60 Hz), 180–264 V AC (50/60 Hz)
Spurious emissions	Less than –60/–70 dB (HF bands/50 MHz)
Input impedance	50 Ω
Matching impedance range	16.7–150.0 Ω
Tuning accuracy	VSWR 1.5 : 1 or less
Usable temperature range	–10°C to +40°C, +14°F to +104°F
Dimensions (Projections not included)	425 (W) × 149 (H) × 445 (D) mm, 16.7 × 5.9 × 17.5 in
Weight (approximate)	TBD

All stated specifications are subject to change without notice or obligation.

## REAR PANEL VIEW



This picture shows the panel layout, but cables are not shown.

All stated features, appearances, screen shots and specifications may be subject to change without notice. Icom and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand and/or other countries. All other trademarks are the properties of their respective holders.

### Icom Inc.

1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

[www.icomjapan.com](http://www.icomjapan.com)

Icom America Inc.  
[www.icomamerica.com](http://www.icomamerica.com)

Icom (Europe) GmbH  
[www.icomeurope.com](http://www.icomeurope.com)

Icom (Australia) Pty. Ltd.  
[www.icom.net.au](http://www.icom.net.au)

Your local distributor/dealer:

Icom Canada  
[www.icomcanada.com](http://www.icomcanada.com)

Icom Spain S.L.  
[www.icomspain.com](http://www.icomspain.com)

Shanghai Icom Ltd.  
[www.bjicom.com](http://www.bjicom.com)

Icom Brazil  
E-mail: [sales@icombrasil.com](mailto:sales@icombrasil.com)

Icom (UK) Ltd.  
[www.icomuk.co.uk](http://www.icomuk.co.uk)

Icom France s.a.s.  
[www.icom-france.com](http://www.icom-france.com)

HF/50 MHz ALL BAND 1 kW LINEAR AMPLIFIER

## SO2R Operation with One Amplifier



The latest LDMOS effortlessly provides 1 kW output at full duty cycle, even for extended periods of time

2×6 antenna selector realizes SO2R (Single Operator Two Radios) operation with only one amplifier

Six antenna connectors enable using a variety of antennas for multiple bands

Super low-distortion output with superior IMD (Intermodulation Distortion)

When connected to Icom radios, all settings are automatically completed

Simultaneous band data output for both Main and Sub bands

A LAN port for remote control operation from a PC

Touch screen color TFT LCD enables intuitive setting changes

## SPECIFICATIONS (Japanese version)

Frequency coverage	1.800–1.999 MHz
	3.500–3.999 MHz
	7.000–7.300 MHz
	10.100–10.150 MHz
	14.000–14.350 MHz
	18.068–18.168 MHz
	21.000–21.450 MHz
	24.890–24.990 MHz
Output power	1 kW (180–264 V AC)
	500 W (90–132 V AC)
Driving power	Maximum 100 W
Power supply requirement	90–132 V AC (50/60 Hz)
	180–264 V AC (50/60 Hz)
Spurious emissions	Less than –60 dB (HF bands)
	Less than –70 dB (50 MHz band)
Input impedance	50 Ω
Matching impedance range	16.7–150.0 Ω
	(from HF to 50 MHz band)
Tuning accuracy	VSWR 1.5 : 1 or less
Usable temperature range	–10 °C to +40 °C (14 °F to +104 °F)
Weight	TBD

## DIMENSIONS

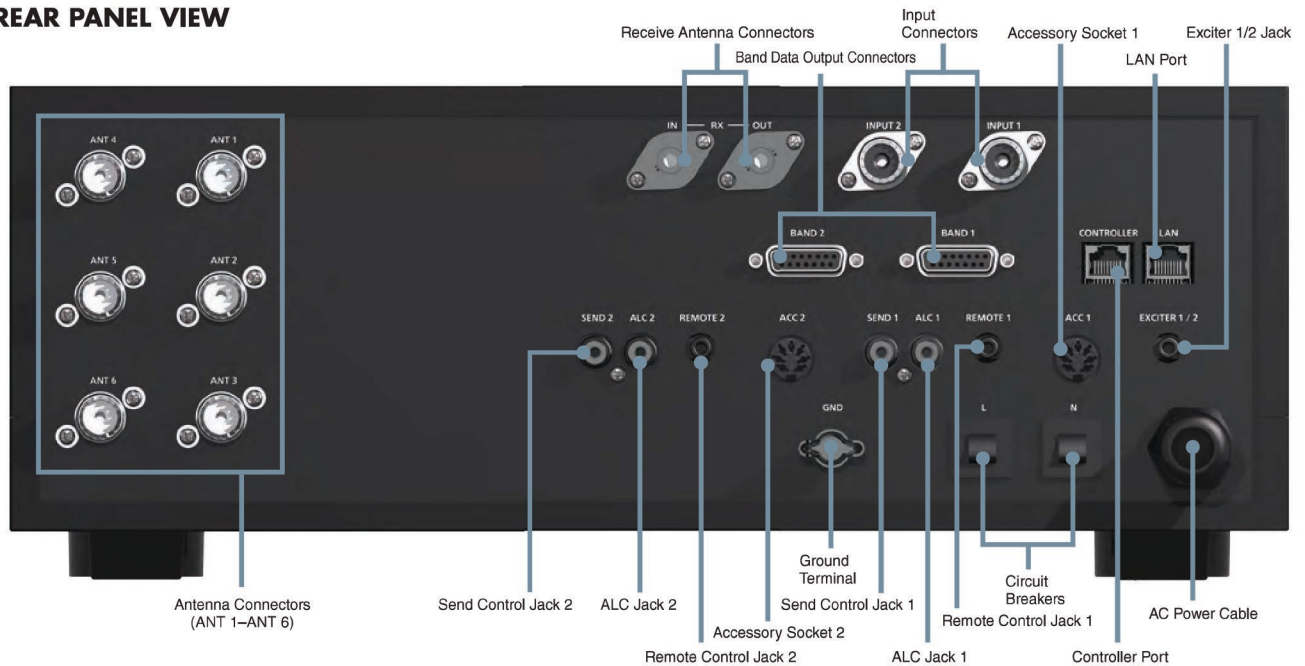
### Main Unit



### Controller



## REAR PANEL VIEW



All stated features, appearances, screen shots and specifications may be subject to change without notice. Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand and/or other countries. All other trademarks are the properties of their respective holders.

**Icom Inc.** 1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

[www.icom.co.jp/world](http://www.icom.co.jp/world)

**Count on us!**

**Icom America Inc.**  
www.icomamerica.com

**Icom (Europe) GmbH**  
www.icomeurope.com

**Icom (Australia) Pty. Ltd.**  
www.icom.net.au

Your local distributor/dealer:

**Icom Canada**  
www.icomcanada.com

**Icom Spain S.L.**  
www.icomspain.com

**Shanghai Icom Ltd.**  
www.bjicom.com

**Icom Brazil**  
E-mail: sales@icombrasil.com

**Icom (UK) Ltd.**  
www.icomuk.co.uk

**Icom France s.a.s.**  
www.icom-france.com