


microHAM

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USB MK2R



MK2R and MK2R+ are absolutely the most advanced, flexible and capable two-radio interfaces available today.

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MK2R™ and MK2R+™ are most powerful All-In-One multi-mode two radios USB controller for CW, SSB, AM, FM, and digital modes (RTTY, PSK31, SSTV and many others) designed for the serious contest operator or DXer with two transceivers. *microKEYER 2R* includes rig control interfaces for two supported radios (Elecraft, Icom, JRC, Kenwood, Ten-Tec, and Yaesu), independent PTT outputs for both LNA and Power Amplifier control, an improved, second generation WinKey CW Keyer, receive and transmit audio switching. *microKEYER 2R Plus* also includes a unique, dual codec sound system for audio processing.

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MK2R+ micro KEYER 2 Radio Plus 600,00 €

Current lead time 4 weeks

Package contains:
MK2R+™, USB cable, LPT cable, two (2) stereo audio cables, headphone cable ending with two (2) 6.3mm (1/4") plugs, two (2) 3.5mm (1/8") plugs, one (1) coaxial 2.1mm/5.5mm power plug, two (2) RCA to RCA cables, and CD-ROM containing the microHAM USB Device Router program and documentation.

DB37 Cable - Select Your Radio 1

2m length Radio 1 cable (+16,00 €)

DB37 Cable - Select Your Radio 2

2m length Radio 2 cable (+16,00 €)

MK2R micro KEYER 2 Radio 520,00 €

Current lead time 4 weeks

Package contains:
MK2R™, USB cable, LPT cable, six (6) stereo audio cables, headphone cable ending with two (2) 6.3mm (1/4") plugs, two (2) 3.5mm (1/8") plugs, one (1) coaxial 2.1mm/5.5mm power plug, two (2) RCA to RCA cables, and CD-ROM containing the microHAM USB Device Router program and documentation.

DB37 Cable - Select Your Radio 1

2m length Radio 1 cable (+16,00 €)

DB37 Cable - Select Your Radio 2

2m length Radio 2 cable (+16,00 €)

Additional Radio Cables

DB37-EL-K2 56,00 €

Set consist :
DB37-EL-K2 cable and RJ45 to Foster 8 male adapter.

For Elecraft's Transceivers: **K2/100**

2m length (+16,00 €)

DB37-IC-8 56,00 €

Set consist :
DB37-IC-8 cable and RJ45 to Foster 8 male adapter.

For ICOM's Transceivers: **IC-707 IC-725 IC-726 IC-728 IC-729 IC-735 IC-736 IC-737 IC-738 IC-746 IC-746Pro IC-7400 IC-756 IC-756Pro IC-756ProII IC-756ProIII IC-761 IC-765 IC-775 IC-781 IC-910**

Radio model

2m length (+16,00 €)

DB37-IC-13 56,00 €

Set consist :
DB37-IC-13 cable

For ICOM's Transceivers: **IC-703 IC-706 IC-706mkII IC-706mkIIIG IC-7000**

Radio model

2m length (+16,00 €)

DB37-IC-718 56,00 €

Set consist :
DB37-IC-718 cable

For ICOM's Transceivers: **IC-78 IC-718**

Radio model

2m length (+16,00 €)

DB37-IC-RS8 56,00 €

Set consist :
DB37-IC-RS8 cable and RJ45 to Foster 8 male adapter.

Radio model

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Accessories

PS2 Keypad**25,00 €**

PS/2 Keypad compatible with microHAM products


- allows access to nine message memories
- record and playback CW/Voice memories
- control contest serial number insertion
- chain/loop messages with variable delay
- set/change CW speed
- powered by microKEYER or CW Keyer

Not available!

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Features

General:

- single USB connection (advanced mode) with LPT port for compatibility with "classic standard"
- stand alone operation without computer
- support for independent settings for dissimilar radios
- optimized operation on each radio and dissimilar modes (R1=SSB, R2=CW)
- innovative dual sound card processing
- integrated dual USB sound core (MK2R+ only)
- 16 buttons/42 lights for ergonomic function control and status display
- compatible with most standard MS Windows based logging or control programs
- DOS mode compatibility with LPT port interface of DOS based contest loggers (CT, TR, NA)

Radio control:

- integrated level converter for both radios CI-V, FIF-232, IF-232, or RS-232
- up to 57600 Baud with handshake support
- fully supports most Icom, Kenwood, Ten-Tec, Yaesu and other radios
- optical isolation of radio control port from computer

Keying:

- optical isolation of all keying signals from computer
- intelligent keying lockouts for both radios (Band lock, Busy lock, External lock)
- hardware support for "last one wins" or "first one wins" operation
- easy switching between manual and automatic control
- independent settings for dissimilar Power Amplifiers
- Hot Switch PA protection with user defined timing
- programmable PTT assertion delay in 1ms steps
- T/R sequencer with extended capabilities
- separately sequenced keying outputs for VHF LNA preamplifiers
- supports dual (one per radio) or single footswitch operation
- supports separate PTT for each radio with automatic TX focus control
- supports VOX and CAT T/R switching
- wide range solid state outputs for modern PA keying or QSK PA separately for each radio
- relay isolated outputs for negative or high voltage PA control for each PA

powered by

CW:

- integrated second generation K1EL WinKey2
- front panel speed knob
- selectable side tone capabilities with "paddle side tone" function
- nine (9) user programmable memories
- logger independent contest auto-numbering
- supports PS/2 keyboard for CW transmission with type ahead
- supports PS/2 keyboard or keypad for CW "memory keyer" and control
- PS/2 keyboard or keypad CW works without computer connection
- handles multiple CW sources: WinKey2, serial port and/or LPT port with steering

Digital (FSK/AFSK):

- six transformers for DC isolation of sound card and radios
- selectable routing of radio outputs (VFO A/B) for each sound card channel
- low noise preamplifiers for improved weak signal decoding
- front panel controls to optimize levels for each sound card channel
- front panel controls to optimize mic drive for each radio
- integrated high performance, low noise floor USB sound core (MK2R+ only)
- separate USB sound codec for digital modes (MK2R+ only)
- separate AFSK drive for each radio
- selectable sound card channel output/steering for AFSK
- application specific mono/stereo signal source handling
- dual FSK output
- supports data codes with 5/6/7/8 data bits and 1/1.5/2 stop bits
- unique, hot switch protected FSK keying
- separate PTT output for AFSK keying supports microphone muting
- nine (9) user programmable memories (FSK)
- supports PS/2 keyboard FSK transmission with type ahead and diddle function
- supports PS/2 keyboard or keypad for FSK message playback and control
- PS/2 keyboard/keypad FSK works without computer connection

Voice (SSB/AM/FM):

- front panel headset jacks
- rear panel hand/desktop microphone jack
- front panel selection of connected microphones
- supports all microphone control functions for Radio1
- selectable preamplifier supports dynamic microphones with computer interface
- selectable preamplifier for using dynamic microphones with Icom radios
- customizable microphone routing for each state (VOX / computer PTT / footswitch) by radio
- customizable microphone routing for operation style (direct to radio / through sound card)
- Digital Voice Keyer with nine messages up to 120 seconds line and unlimited "banks"

Headphone (Receive) Audio:

- front panel headphones jacks, rear panel external speaker jack
- unique "multi-source" signal handling
- supports second sound card for audio review or "spot announcements"
- able to switch any of six (6) audio sources to either ear
 1. R1 VFO A 2. R1 VFOB 3. R2 VFO A 4. R2 VFOB
 5. Sound Card left channel 6. Sound Card right channel

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Specifications

USB:

USB 2.0 Full speed, USB 1.1 compatible

Power consumption:

USB – less than 300mA

Power supply – less than 300mA at 13.8V (max. 16V)

Radio Ports:

2 x Rx/D, Tx/D – max. 57,600 Baud, RTS/CTS handshake supported

Levels: TTL, inverted TTL, open collector bus, RS232

CW: 2 x open collector, max 30V/400mA

FSK: 2 x open collector, max 30V/400mA

PTT1: 2 x open collector, max 30V/400mA

PTT2: 2 x open collector, max 30V/400mA

PA PTT: selectable by internal jumpers

2 x Open collector, max. 48V/0.8A

2 x Relay contact, max. 48VAC/1A 48VDC/1A

LNA PTT: selectable by internal jumpers

2 x Open collector, max. 48V/0.8A

2 x Relay contact, max. 48VAC/1A 48VDC/1A

ACC port pins 2-13: TTL levels, max 4mA load

ACC port pin 15: 5V, max. 100mA

LPT port: TTL levels, max 4mA load

Foot Switch: 2 x active when closed to ground, max load: 1 mA at 5V

PTT IN: 2 x active when closed to ground, max load: 1 mA at 5V

EXT SPEAKER: stereo, 32 ohm load

Audio Out: 600 Ohm, 3V p-p max.

3dB bandwidth: 0.2 - 6KHz typical

MK2R+ only

Second harmonic: -84 dB typical

Third harmonic: -72 dB typical

D/A Sampling rates: 32000, 44100, 48000 Hz

Audio In: 50K Ohm, max 4Vpp

3dB bandwidth: 0.2 - 6KHz typical

MK2R+ only

Absolute noise floor: -82 dBm @600 Ohms typical

Dynamic Range: 82 dB typical

A/D sampling rates: 8000, 11025, 16000, 22050, 32000, 44100, 48000 Hz

Dimensions: W 305mm (12") x H 67mm (2.63") x D 106mm (4.17")

Weight: 1.5 kg (3.3 lbs.)

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Compatibility

Software Compatibility:

MK2R and MK2R+ are compatible with most Windows based contest logging programs, day-to-day logging programs that support two radios and many DOS contest loggers. Each program uses different approach (programming technique) for supporting Radio control, CW sending, FSK sending etc. Following table shows which functions of particular logger has been tested and works with micro KEYER.

If table does not contain your favorite logger, please contact us. If you know about a logger that works with MK2R or MK2R+ please write us. We will be happy to receive your report and update compatibility table.

In any case, CW output from the internal memory keyer, foot switch, both PTT and PA PTT outputs, microphone switching and audio routing functions whether if the computer is connected and program running or not.

Program	Radio Control	Serial CW	PTT	FSK	Digi modes or SSB via sound card
CTWin 10.03	YES	YES (6)	YES (6)	N/A	N/A
DXBase 2006	YES	YES	YES	N/A	YES
DXLab Suite	YES (4)	YES (5)	YES (4,5)	YES (2)	YES (5)
DX4WIN 7.03	YES	YES	YES	YES (2)	YES
Ham Radio Deluxe 3.3	YES	YES (1)	YES	N/A	YES
Logger32 v2.8.0	YES	YES	YES	YES (2)	YES
LOGic 8	YES	YES	YES	N/A	YES
N1MM 6.9.6	YES	YES (1)	YES	YES (2)	YES
RCKlog 1.41	YES	YES (1)	YES	N/A	YES
RCKRtty 3.06	YES	N/A	YES	YES (2)	YES
SD 11.06	YES	YES (1)	YES	N/A	N/A
TRX-Manager 3.7.5	YES	YES (1)	YES	N/A	N/A
Win-Test 3.0.0	YES	YES	YES	YES (2)	YES
WinWarbler 4.5.9	YES(4)	YES (1)	YES	YES (2)	YES
WriteLog 10.61	YES	YES	YES	YES (2)	YES

N/A - function is not implemented in program

- 1 - thru internal Winkey
- 2 - thru MMTTY engine
- 3 - thru Sound Card
- 4 - thru Commander
- 5 - thru WinWarbler
- 6 - with LPT port only

Hardware compatibility

MK2R works with all PC compatible desktop or laptop computers (800 MHz CPU or greater) with USB port and sound card. MK2R+ integrates a dual codec USB based sound system for "computer independent" sound system performance.

We have prewired high quality cable sets with all connections for most HF radios.

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