

STATION MASTER DeLuxe



Station Master Deluxe™ is the big brother of Station Master™ and has all its capabilities but provides a more ergonomic user interface with large 240x64 LCD, multiple programmable buttons and stacked antenna support. Station Master Deluxe is designed for large single radio stations with multiple rotators and stacks, advanced SO2R stations requiring full control and ergonomic setup for each radio position, and all multi-station setups.

The feature that sets Station Master Deluxe (SMD) apart is network operation. Multiple SMD units can be linked over a reliable, low latency "uLink" (RS-485) bus independent of the computer LAN network. uLINK supports up to 16 SMD controllers (8 SO2R operating positions or 16 single radio operating positions in any combination). Each linked SMD can simultaneously access up to 128 uLink interface modules. The uLINK bus can be up to 4000 ft (1.2 km) using CAT5 cable – enough to comfortably link a complete multi-op station including the antenna farm. uLINK interface modules are small, remotely located, dedicated function devices – relay output module, RS232 module, rotator control module, stepper motor module, etc. - to control end point devices like antenna switches, stack switches, beverage switches, rotator controllers, motors, matching networks, and more.

Station Master Deluxe includes a user configurable system of hierarchical priorities and lockouts which allow sharing the endpoint devices among multiple stations without collisions and damage.

Highlights:

- Fully stand alone operation, independent of the logging computer and LAN.
- Compatible with all microHAM "keyers." Advanced integration with MKII and MK2R.
- Special handling of "shared" devices – e.g., mutiband antennas, shared amplifiers, SteppIR antennas.
- Maintains three antenna path/status: Receiver 1, Receiver 2, and transmit antenna.
- Support for stacked antennas including complex topologies (e.g., stacked stacks).
- Configurable interlocks to prevent damage and support various operation styles (contest rules: one transmitter, one transmitter with multiplier, multi-multi, etc.).
- Intelligent rotator control including linked/slave rotators, rotator over rotator, or rotator on rotary tower.
- Special support for receive antennas.

Availability: July 2009

Price: 560€/ \$839

microHAM

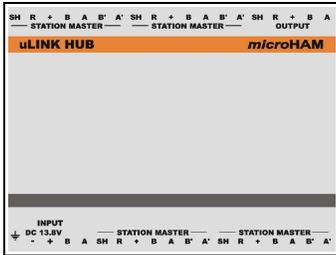
www.microHAM.com

microHAM America

www.microHAM-USA.com

uLINK modules

To allow any operating station (radio) to access and control any station device (antennas, rotators, controllers), each SMD must be connected to the same network - uLINK bus. Using this control network, each station can dynamically control those device(s) assigned to that station based on operating frequency.



uLINK HUB

The uLINK Hub serves as a concentrator and isolated power source Station Master DeLuxe (SMD) controllers connected to the uLink bus.

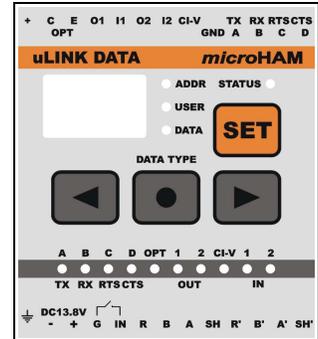
Up to four SMDs can be connected to one Hub. Hubs may be chained and can be located anywhere within the peer-to-peer network topology.

Availability: July 2009

Price: 120€/179

uLINK DATA

uLINK DATA is designed to control of data devices and supports: one RS232 serial port with RTS/CTS, a CI-V port (translates frequency from the active transceiver (SMD) to Icom protocol), two configurable inputs, one open collector output and one optically isolated output. The serial port can be switched to BCD TTL outputs.



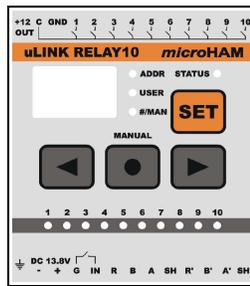
These capabilities allow uLINK DATA to control most automatic power amplifiers, serial antenna tuners, rotators with RS232 ports, SteppIR controllers, N8LP wattmeter, and other RS232 devices. The list of supported devices will be extended based on user input.

Availability: July 2009

Price: 120€/179

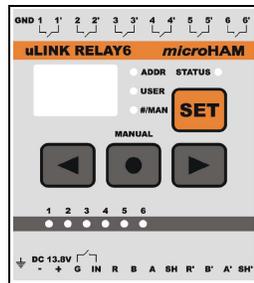
RELAY10, RELAY6

Relay modules are available in ten (RELAY10) or six (RELAY6) configurations. RELAY10 has one common pole; RELAY6 has six isolated SPST contacts. Outputs can be configured to operate based on status (antenna switch), RX or TX frequency (BPF) or as a



sequencer output (SEQ).

Outputs can be partitioned into logical groups (outputs assigned to control particular device) - for example, three outputs to control a receive only 4SQ, and another three outputs for a different antenna control. Each logical group can be accessed by different SMD/radio at the same time.



Availability: July 2009

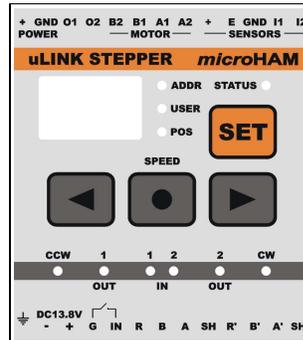
Price RELAY6: 120€/179

Availability: July 2009

Price RELAY10: 130€/195

uLINK STEPPER

The uLINK Stepper Module can drive any bipolar stepper motor up to 2.5A winding current and will automatically remember/set position of the motor based on the transmit or receive frequency of the active SMD/transceiver with 10kHz resolution and better than 0.4 degree accuracy. For each frequency segment, the SMD remembers data for up to 32 different motors.

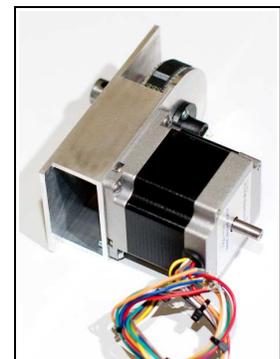


The primary function of uLINK Stepper is to adjust matching networks, variable capacitors, rotary switches, etc. uLINK Stepper also supports multiturn devices (vacuum variable capacitors, roller inductors).

Each module includes a 1.8 deg NEMA23 stepper motor with belt drive available in 1:1, 2:1 or 4:1 ratios with 6mm, 1/4 inch or 8 mm output shaft. The motor includes a 6mm thru shaft for manual control.

Availability: September 2009

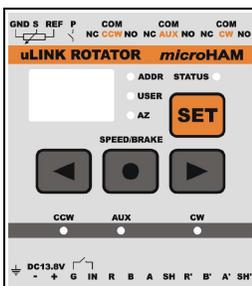
Price: TBD



uLINK ROTATOR

uLINK Rotator can control home made any commercial rotors.

uLINK Rotator supports either analog sensors (pot) or pulse counting sensors (reed contact) direction indicators. There are three relay contact outputs (CW, CCW and AUX). Aux may be configured as either SPEED (Yaesu style) or BRAKE (Hy-gain style). Configuration is compatible with the SM integrated rotator controller. Contact current rating is 16A.



Availability: July 2009

Price: 150€/225

Prices do not include VAT.