

# MCU500 Master Control Unit

At the heart of the flagship OPUS 500 Series Multi-Room Entertainment System lies the MCU500. Capable of distributing up to 5 audio inputs in addition to the in-built tuner and a local input, to 4 main zones and 4 sub zones simultaneously, the MCU500 will fill your home with rich detailed sound. An LCD display panel on the front panel of the MCU500 displays RDS text from the built-in tuner, and enables easy tuning of the 30 station presets.

If required, 6 audio-loop outputs are available to connect the audio sources to existing hi-fi or AV equipment.

For those with larger installation needs, an MCU link facility enables up to 6 MCU500's to be connected together giving a maximum distribution capability of 24 main zones and 24 sub zones.

## Features and Benefits

- Built-in tuner with 30 station presets and RDS text feedback
- 4 main zone outputs
- Each main zone can support an additional sub-zone (4 sub zones)
- MCU link facility for "chaining" up to 6 units
- High power IR "blaster" for simple control of almost any brand of audio equipment\*
- Cloning port for easy programming of IR commands (for use with LRC 500)
- IR emitter outputs for dedicated control of source equipment
- Full IR pass-through capability for control of source equipment via wall mounted control units
- Page inputs with dedicated volume control for integrating PA and paging systems
- Alarm input with dedicated volume control for integration to intruder and fire alarms etc.
- Mute input for integration with telephone system or doorbell etc.
- Zone "active" indicator LED's
- Expansion port for adding Video Switching
- Rack mountable (optional kit available)
- Available in silver (MCU500-S) or black (MCU500-B) finishes.



\*Not Bang and Olufsen due to its unusual IR frequency

## SYSTEM DIAGRAM

### A single Master Control Unit will serve up to 8 rooms.

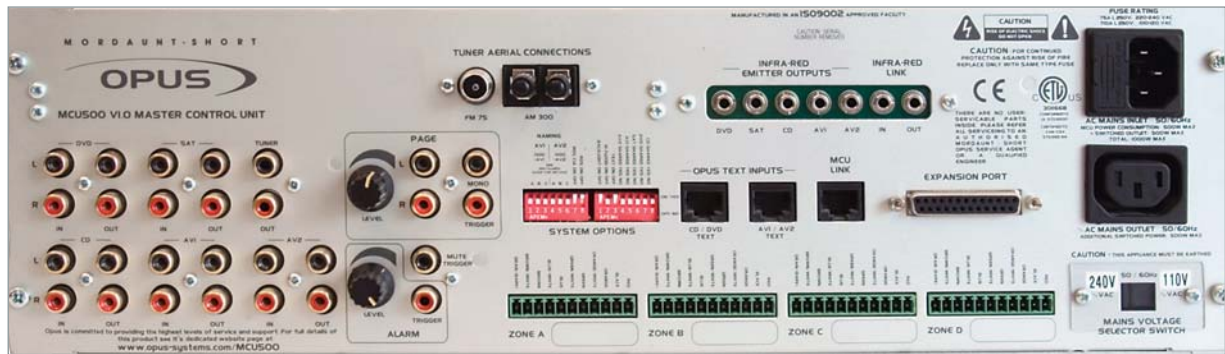
This diagram shows one Main Zone and one Sub Zone.

Hi-fi or video equipment from virtually any brand can be connected to Opus.

This is a typical 2 zone configuration using AVI and AV2 as inputs for the Music Server. These inputs can be labelled 'H-Disk'.



## TECHNICAL CLOSE UP



Rear Panel

## SPECIFICATIONS MCU500

<b>Inputs</b>	7 total: 5 line-level inputs + built-in tuner + local input on each zone's DZM	<b>Antenna Connections</b>	FM 75 Ohm AM/MW/LW 300 Ohm
<b>Input Impedance</b>	100k	<b>Max. No. of presets</b>	FM 29 AM/MW 9 LW 9
<b>Frequency Response</b>	20Hz - 20kHz +/- 1dB	<b>Standby Power Consumption (All zones off)</b>	40W
<b>THD</b>	<0.006% 20Hz - 20kHz	<b>Maximum Power Consumption</b>	500W
<b>S/N Ratio</b>	>86dB 'A' weighted	<b>Mains Voltage (switchable)</b>	110 - 120V or 220V - 240V AC @ 50 - 60Hz
<b>Cross-talk / Channel separation</b>	>84dB 'A' weighted	<b>Weight</b>	32.5lbs (15Kg)
<b>Wavebands</b> 1611kHz	<b>FM</b> 87.5 - 108MHz <b>MW</b> 522kHz - 530kHz <b>LW</b> 530kHz - 279kHz	<b>Dimensions without rack ears (WxHxD)</b>	430 x 151 x 392 mm approx.
<b>Sensitivity</b>	<b>FM</b> 0.9uV (DIN) / 1.2uV (IHF) <b>AM/MW</b> 18uV <b>LW</b> 30uV	<b>CE marked to regulations</b>	EN 60-065 (including amendment A11, 1997); EN 55 013 (1990) inc. amendments A12 (1994) and A14 (1999); EN 61 000-3-2 (1995) inc. amendments A1 (1998), A2 (1998) and A14 (2000); EN 61 000-3-3 (1995); EN 55 020 (1994)
<b>S/N Ratio</b>	<b>FM</b> Mono 77dB/ Stereo 72dB <b>AM/MW</b> 53dB <b>LW</b> 50dB	<b>ETL listed (Listing number 3011668)</b>	CAN/CSA E65-94; UL6500; FCC Part 15 (2001-05)
<b>FM Frequency Response</b>	20Hz - 16kHz +/-2dB		



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