

MCU500 V2.7

Master Control Unit

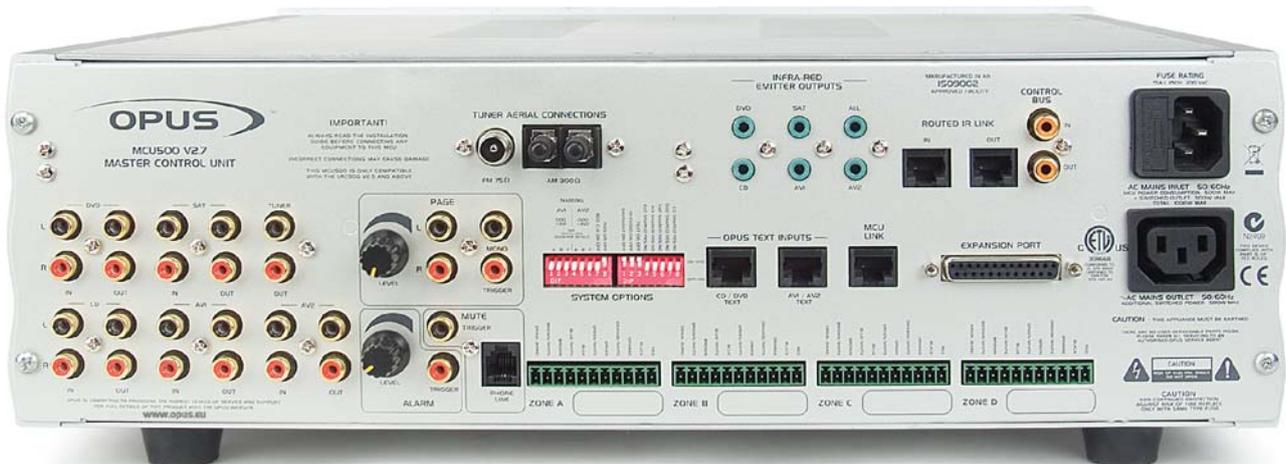
At the heart of the flagship Opus 500 Multi-Room entertainment system lies the MCU500. Capable of distributing up to 5 audio inputs in addition to the in-built tuner and a local input, to 4 main zones and 4 sub-zones simultaneously, the MCU500 will fill your home with rich detailed sound. Every room can also have a local input for an iPod™, games console etc. 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.

Six 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 MCU500s to be connected together giving a maximum distribution capability of 24 main zones and 24 sub-zones.

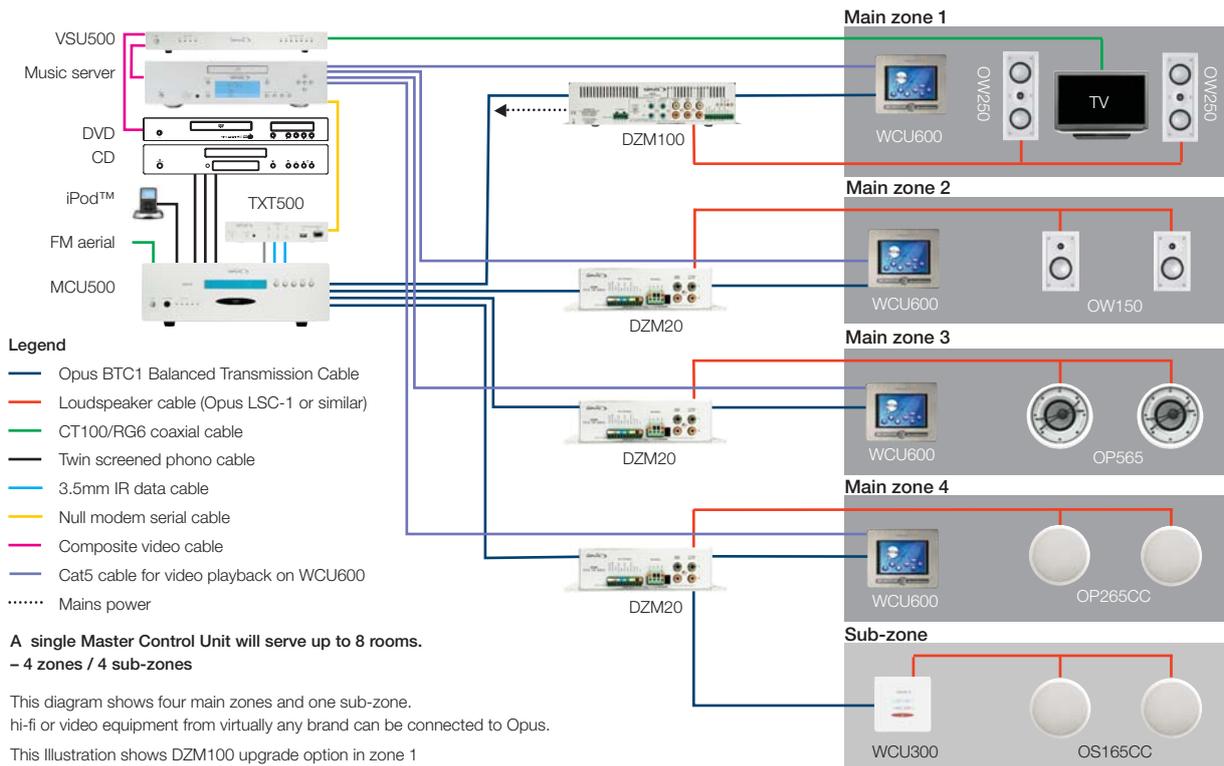


Key features

- Built-in tuner with 30 station presets and RDS text feedback to keypads
- 4 main zone outputs
- Each main zone can support an additional sub-zone (4 sub-zones)
- Expansion port for adding Video Switching
- MCU link facility for “chaining” up to 6 units
- High power IR “blaster” for simple control of almost any brand of audio equipment
- Routed IR emitter outputs for dedicated control of source equipment
- Full IR pass-through capability for control of source equipment via remote controls.
- Page input 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 LEDs
- Cloning port for easy programming of IR commands (for use with LRC500)
- Rack mountable (optional kit available)
- Available in silver (MCU500-S) or black (MCU500-B) finishes.



A typical Opus 500 installation schematic



Specifications

Inputs 7 total: 5 line-level inputs
+ built-in tuner + local input
on each zone's DZM

Input impedance
100k

Frequency response
20Hz - 20kHz +/- 1dB

THD <0.006% 20Hz - 20kHz

S/N ratio
>86dB 'A' weighted

Cross-talk / channel separation
>84dB 'A' weighted

Wavebands
FM 87.5 - 108MHz MW
1611kHz AM 530kHz -
1710kHz (US Version)
LW 530kHz - 279kHz

Sensitivity
FM 0.9uV (DIN) / 1.2uV (IHF)
AM/MW 18uV LW 30uV

S/N Ratio
FM Mono 77dB/ Stereo
72dB AM/MW 53dB
LW 50dB

Product detail



FM frequency response
20Hz - 16kHz +/-2dB

Antenna connections
FM 75 Ohm AM/MW/LW
300 Ohm

Max. No. of presets
FM 29 AM/MW 9 LW 9

**Standby power consumption
(All zones off)**
40W

Maximum power consumption
500W

Mains voltage (switchable)
110 - 120V or 220V -
240V AC @ 50 - 60Hz

Weight 32.5lbs (15Kg)

Dimensions without rack ears (WxHxD)
430 x 151 x 392 mm approx.

CE marked to regulations
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)
ETL listed (Listing number
3011668 CAN/CSA E65-94;
UL6500; FCC Part 15 (2001-05)