

# NSP

## Network Signal Processor

*The NSP (Network Signal Processor) is the external parameter expansion for grandMA systems. Completely compatible with the grandMA family. Supports four independent DMX universes. Decentralised DMX output for multi-user and backup systems. Also operates as Ethernet node with several network protocols. DMX output for grandma onPC.*



### **Technical Specification – Art.-No. 130101**

#### **Physical Input / Output**

**Network:** 100 base TX, EtherCon

**DMX-512A:** 5-pin XLR: 4x OUT, or 3x OUT and 1x IN\*, or 2x OUT and 2x IN\*  
[\*only in Art-Net mode]

**Keyboard:** 1x PS2

**Mouse:** 1x PS2

**VGA:** 1x DB-15

#### **User Interface**

Intuitive menu structure

Backlit LCD display

4x function keys

1x encoder wheel

External VGA monitor, PC keyboard and PC mouse optional.

#### **Dimensions**

**Size:** 483 x 44 x 180 mm  
(19 x 1.7 x 7 inches)

**Weight:** 3.3 kg / 7.3 lbs

#### **Technical Details**

**Parameters:** 2,048 with 8 or 16 bits

**Protocols:** DMX-512A, MA-Net, Art-Net

**Operating System:** VxWorks

**Permanent Memory:** 64 MB CF-Card Flashcard

**Processor:** Geode, 266 MHz

**Main Memory:** 256 MB

**Power Supply:** 110/240V, 50-60Hz

**Power Rating:** 15 W

#### **Parameter Expansion**

Large shows may require more control channels than a single console can handle. Instead of virtually linking the outputs of multiple consoles, grandMA offers true expansion of a single console's parameter capacity. Up to 16,384 individual parameters in both 8bit and 16bit resolution are controlled and displayed on a single grandMA console, with a maximum of 64 discrete DMX universes on the network. When configured in parameter expansion mode, the master console functions as a terminal interface: communicating and displaying locally – while all controlled parameters are processed externally by Network Signal Processors (NSPs).

