The clocking of digital audio signals is vitally important to achieve the best possible fidelity. Merging's experience in dealing with the challenges of perfectly synchronizing digital devices is invaluable. The RAVENNA network technology makes it much easier to distribute super-accurate timing information to all connected devices, but why not go a stage further and make your Master Clock phenomenally accurate. The MERGING+CLOCK is not only designed to synchronize your RAVENNA network, it is also provided with a direct high performance connection to your MERGING+NADAC offering also automatic sample rate switching, with two 10MHz synchronous outputs for other high-end components and with a set of four Word Clock outputs for our professional friends.

The MERGING+NADAC and MERGING+PLAYER offers fidelity and audio quality that has left many critics in awe. The MERGING+POWER pushes the envelope a little further by providing the optimum power conditions for each circuit. The MERGING+CLOCK eliminates the last possible performance compromise: the Master Clock.

Merging is all about eliminating compromises but offering a choice to meet different budgets. The CLOCK is therefore available as two editions:

**CLOCK-L**
- Low Noise edition, offers extraordinary accuracy with a frequency stability of +/-50ppb.
- The state of the art in clocking performance.

**CLOCK-U**
- Ultra-Low Noise edition, offers the almost unbelievable figure of +/-20ppb.
- The choice for those pursuing the ultimate!

**NETWORK CONNECTION VIA ROUTER TO MERGING’S RAVENNA NETWORKED AUDIO DEVICE**
- Dedicated synchronization interface for connecting MERGING+NADAC or MERGING+PLAYER
- 10MHz synchronization output interface that can be used as a synchronization source for many digital hi-end devices

**OPERATING TEMPERATURE**
- -20°C to +55°C (32°F to 131°F)

**OPERATING HUMIDITY**
- 20% RH - 80% RH

**WARM UP**
- CLOCK-L: 2 HOURS PERFECT
- CLOCK-U: 1 HOUR PERFECT

**FREQUENCY STABILITY**
- CLOCK-U: +/-20ppb
- CLOCK-L: +/-50ppb

**10MHz OUTPUT SHORT-TERM STABILITY**
- CLOCK-U: TYPICAL 7E-13
- CLOCK-L: TYPICAL 2E-12

**10MHz OUTPUT PHASE NOISE TYPICAL OUTPUTS**
- CLOCK-U: -111dBC @ 1Hz
- CLOCK-L: -103dBC @ 1Hz
- CLOCK-U: -135dBC @ 10Hz
- CLOCK-L: -130dBC @ 10Hz
- CLOCK-U: -145dBC @ 100Hz
- CLOCK-L: -140dBC @ 100Hz
- CLOCK-U: -155dBC @ 1kHz
- CLOCK-L: -155dBC @ 1kHz
- CLOCK-U: -160dBC @ 10kHz
- CLOCK-L: -155dBC @ 10kHz

**10MHz OUTPUT AMPLITUDE**
- SINE >7dBm @ 50OHM LOAD

**NADAC /10MHz (N/10) OUTPUT SIGNAL**
- LVTTL FIXED 625kHz

**WORD CLOCK OUTPUT SIGNAL**
- 44.1kHz - 1.536MHz

**ETHERNET**
- AUTO-RANGING

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