

## Connecting the SuperCMIT, 15.06.2016

### Connecting the digital microphone SCHOEPS SuperCMIT

The SuperCMIT conforms to the AES42 standard, Mode 1. You connect it to an interface offering Digital Phantom Power (DPP, 10 Volts).

The SuperCMIT runs on its own internal clock. If you run more than one SuperCMIT or if you prefer to use an external clock, your digital input must use sampling rate converters (SRC). Furthermore, in a normal workflow, the digital input should also offer sufficient gain (20 - 30 dB) for recording and monitoring in real time.

### Mini-DA42

#### AES42/AES3 converter with analog outputs

The Mini-DA42 powers digital microphones and has both digital and analog outputs. All inputs and outputs are available through a Sub-D breakout cable.

On the Mini-DA42 there are a green Power LED and a red "Unlocked" Error LED which turns off as soon as the device successfully locks to the connected digital microphone.

Input:

- AES42, Mode 1 (XLR-3F, 100 Ohms, black label)
- power: DC 12 - 18V / 200 - 500 mA, available through included AC adapter for 100 - 240 V, 50 / 60 Hz with HIROSE plug.

Outputs (available through included Sub-D breakout cable):

- AES3 (XLR-3M, 100 Ohms, blue label)
- 2 \* analog (XLR3-M, yellow and red label), balanced, referring to ground, maximum cable length: 300 m

Specs:

- output level: max 14.5 dBu @ 0 dBFS.  
In normal operation, the analog outputs will require some amplification, since digital input signal levels are typically rather far below full scale. When using the +30dB level boost of the SCHOEPS SuperCMIT, normal line inputs are sufficient.
- power consumption (including SuperCMIT): 200 mA
- dimensions in mm: 84 \* 84 \* 34; weight: 173 g

### PSD 2U

#### Digital Phantom Powering (AES42/AES3 converter)

The PSD 2U provides the digital phantom power (DPP, 10V) for a digital microphone like the SuperCMIT. It can be connected to a normal digital AES3 input (XLR/RCA).

Inputs:

- AES42, Mode 1 (XLR-3F)
- power: DC 12 - 18V / 500 mA, available through included AC adapter for 100 - 240 V, 50 / 60 Hz with HIROSE plug

Outputs:

- AES3 (XLR-3M) and AES3id (RCS)



*Mini-DA42:  
AES42 converter with analog outputs*



*Breakout cable for Mini-DA42:  
input: 1 \* AES42,  
output: 1 \* AES3 out, 2 \* analog*



*PSD 2U:  
Powering box for digital microphones  
with AES3 outputs (XLR/RCA)*

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Device	DPP 10V	SRC	Analog output	Digital Gain	Head-phones Output	
<b>AES 42 Adapters:</b>						
1. SCHOEPS PSD 2U		-	-	-	-	
2. SCHOEPS Mini-DA42		-		-	-	
3. RME DMC-842					-	
4. LP DAC C462		-				
5. Neumann Connection Kit and DMI-2		-	-	-	-	
<b>Digital Recorder with AES 42 inputs:</b>						
6. SoundDevices a) 788T						
b) 664 and 633						
7. ZAXCOM Nomad and ZAX-MAX						
8. AATON Cantar-X3						
9. AETA 4MinX						
10. Sonosax SX-R4+						
<b>Wireless Systems with AES 42 input:</b>						
11. Zaxcom TRX742 + AES42 Cone		-	-		-	