



# XCMC

DSP module



A U D I O   E X C E L L E N C E

## The NEXUS DSP Board for AURATUS and ON AIR Mixers

XCMC cards form the compact DSP core of the AURATUS and ON AIR mixing consoles. They enable the simple, compact design of smaller systems without significant restrictions in functionality.

With the XCMC cards, Stage Tec has launched a mixer DSP which, while being much smaller in size and can be used directly in NEXUS base devices, still offers almost all the functions of the well-known, large mixing consoles. The quality of audio signal processing also offers the same level for which Stage Tec is renowned. An XCMC board combines the signal processing and control functions of the mixing console surfaces. It is used for AURATUS mixing consoles as well as for

the ON AIR series ON AIR 24 and ON AIR Flex. With ON AIR Flex, it is supplemented by an XACI card that provides additional control options. The card is also used as the heart of the NEXUS Monitor Control , offering the advantages of its small size and outstandingly low power consumption for mixing consoles with this range of functions. Further details on the functions of the various mixing console series can be found on the corresponding product pages.

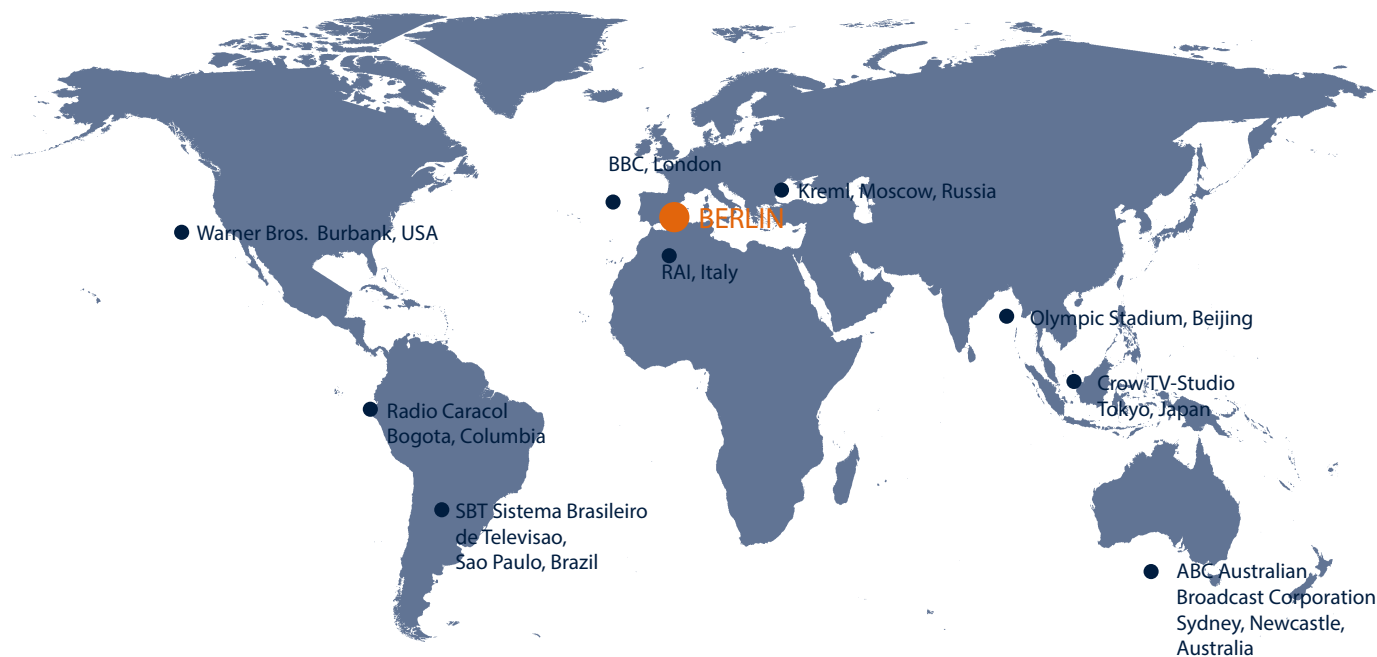
Connections			
XCMC_5	1 x 4TE		
D-Sub 25 Socked female	1x	LTC, MIDI, RS422, RS232	bidirektional
RJ45	1x	AURATUS-Protocol	bidirektional

Technical specifications	
<b>Formats</b>	
mixing console systems	Multichannel and/or stereo system, including multichannel monitoring, solo functions and pan controls; supports stereo and multichannel mixing at the same time
NEXUS Monitor Control	Multichannel monitoring system for NEXUS sources
<b>Inputs and outputs</b>	
NEXUS Audio Network	Uses NEXUS audio-I/O ports; custom interface-card configuration, high-end A/D and D/A converters and various digital interfaces as well as other NEXUS features available
<b>Audio data</b>	
Input channels	54 x input channel (version-specific)
Special channel	1 x talkback channel
<b>Buses</b>	
Aux/N-1	2 x Auxiliary-Bus, stereo; 2 x aux bus (stereo); 4 x aux bus (mono); 8 x N-1 bus (mono, can be used as extra aux buses)
Groups	4 x group bus (stereo, not available in all versions)
Sums (Multichannel Version)	1 x summing bus (5.1); 1 x summing bus (stereo)

<b>Technical specifications</b>	
Sums (Stereo Version)	4 × summing bus (stereo)
Solo/PFL	1 × 5.1 solo bus (stereo bus with the XCMC stereo card); 1 × PFL bus (stereo/2 × mono PFL bus with the ON AIR)
<b>Additional channels</b>	
Special channel	1 × down-mix channel, 6 inputs to 2 outputs
<b>Monitoring Channels</b>	
Monitoring (Multichn. Version)	1 × main monitoring channel (5.1); 1 × monitoring channel (stereo, PB channel)
Monitoring (Stereo Version)	1 × main monitoring channel (stereo); 1 × monitoring channel (stereo, PB channel)
Monitoring channel (ON AIR)	4 × monitoring channel (stereo)
<b>Controller signals</b>	
	Audio is transmitted from and to the control surface (console, control terminal) through the S/STP link. The audio is part of the (control) stream and must be pre-processed with the appropriate A/D and D/A converter cards.
Remote	1 × talkback microphone
Monitoring	1 × phones (stereo); 1 × nearfield speakers (stereo)
Aux output	1 × 8-channel AES/EBU signal (for example, for connecting an external goniometer)
<b>Processing modules (based on the channel type)</b>	
Gain	Internal and NEXUS parameter control; Phase inversion; Stereo-channel input selection
Dynamic processing	Expander/Noise Gate, Compressor Limiter
Frequency-response processing	Equalizer (4 peak filters); Filter (2 band-reject filters)
Signal delay	Delay up to 1365 ms
Insert	switchable insert
Channel outputs	Direct out with gain; Aux send; N-1 send; Fader, mute, pan; Bus routing
<b>Operation conditions</b>	
Temperature range	0 °C bis +50 °C
max humidity	max. 90 %, non-condensing
<b>Storage conditions</b>	
Temperature range	-35 °C bis +70 °C
max humidity	max. 90 %, non-condensing
<b>Storage conditions</b>	
Voltage	+4,75...5,25 V
Current	2,4 A
<b>Mechanical data</b>	
Weight	0,26 kg

# Stage Tec NEXUS: A global reference!\*



\*The map shows selected reference locations. To date more than 1,000 Stage Tec NEXUS systems have been delivered and installed worldwide.

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