

# Audio over Ethernet solution hardware



ZCU 3.x solution board

Role	ST automotive-grade devices
MCU for system control and processing	<ul style="list-style-type: none"> <li>▪ <a href="#">SR6G6C4</a> / <a href="#">SR6G6C6</a> Stellar SR6 G6 line, 32-bit Arm® + automotive integration MCU 4x Cortex®R52+ cores, 16 MB NVM (2x 15 MB "OTA X2") 3.8 MB RAM, with embedded virtualization, safety and security</li> </ul>
Power	<ul style="list-style-type: none"> <li>▪ <a href="#">SPSB100G</a> power management IC</li> <li>▪ <a href="#">STPM801</a> HV hot swap, soft start and oring</li> </ul>
eFuse for power distribution protection	<ul style="list-style-type: none"> <li>▪ <a href="#">VNF1248F</a> high-side switch controller with STi2Fuse protection</li> <li>▪ <a href="#">VNF9D1M5</a> 2-channel high-side driver with STi2Fuse protection</li> <li>▪ <a href="#">VNF9Q20F</a> 4-channel high-side driver with STi2Fuse protection</li> <li>▪ <a href="#">VNF9D5F</a> 2-channel high-side driver with STi2Fuse protection</li> </ul>
Drivers for switching / actuation	<ul style="list-style-type: none"> <li>▪ <a href="#">VN9D30Q100F</a> 6-channel / <a href="#">VN9D5D20FN</a> 4-channel HSD with 24-bit SPI interface</li> <li>▪ <a href="#">VN9004AJ</a> 1-channel / <a href="#">VND9008AJ</a> 2-channel HSD with current sense analog feedback</li> <li>▪ <a href="#">L99MH98</a> octal half-bridge pre-driver / <a href="#">VNH9030AQ</a> integrated H-bridge motor driver</li> <li>▪ <a href="#">L9026</a> configurable multi-channel relay driver 2HS + 6HS/LS / <a href="#">L9800</a> 8-channel LS driver</li> <li>▪ <a href="#">L99DZ200G</a> front door device with LIN and HS-CAN (for dual H-bridge driving)</li> </ul>
LVMOS for power switching	<ul style="list-style-type: none"> <li>▪ <a href="#">STL325N4F8AG</a> / <a href="#">STL210N4LF7AG</a> N-channel 40 V MOSFET in PowerFLAT 5x6</li> <li>▪ <a href="#">STL135N8F7AG</a> N-channel 80 V / <a href="#">STL105N4LF7AG</a> 40 V MOSFET in PowerFLAT 5x6</li> <li>▪ <a href="#">STL76DN4LF7AG</a> N-channel 40 V MOSFET in PowerFLAT 5x6</li> </ul>
Interface device	<ul style="list-style-type: none"> <li>▪ <a href="#">L9663</a> PSI5 transceiver IC</li> </ul>
Audio amplifier	<ul style="list-style-type: none"> <li>▪ <a href="#">HFDA801A</a> 4x80W digital input class-D automotive audio amplifier</li> </ul>



ZCU 3.x audio extension board for audio function enhancement

Role	ST automotive-grade devices
AMP for amplification	<ul style="list-style-type: none"> <li>▪ <a href="#">FDA902HP</a> class-D digital input automotive power amplifier with load value recognition and load current monitor</li> <li>▪ <a href="#">HFDA80D</a> 4-channel digital input class-D audio amplifier with Hi-Fi audio quality, in-play diagnostics, 2 MHz switching frequency</li> </ul>
Codec	For MIC input

