



## Commell LV-6713 – Mini-ITX Mobile Motherboard Intel® Tiger Lake /11th Gen H Processor

Mini-ITX Mobile Motherboard

The LV-6713 provides high-end media and graphics capabilities for devices that display videos, 2D/3D graphics and interactive content. Displays can be connected via one LVDS, two HDMI, and two DP, up to four displays can be controlled simultaneously support to provide its advanced solutions for imaging, machine vision and digital signage applications

### SPECIFICATIONS

<b>CPU</b>	11th Gen Intel® Tiger Lake
<b>Chipset</b>	Intel® QM580E / RM590E (TGL-H Xeon CPUs have to use RM590E)
<b>Memory Type</b>	2 x DDR4 SO-DIMM 3200 MHz up to 64GB, Support Non-ECC, unbuffered memory only (TGL-H Xeon CPUs can support ECC memory)
<b>Memory Slots</b>	2
<b>Maximum Memory Supported</b>	64GB
<b>Integrated Graphics</b>	Intel® 11th Gen integrated UHD Graphics
<b>Watchdog Timer</b>	Generates a system reset with internal timer for 1min/s ~ 255min/s
<b>Serial ATA (SATA)</b>	3 x SATAIII
<b>Video</b>	1 x LVDS (Onboard 18/24-bit single/dual channel +3.3V/ +5V/ +12V LVDS), 2 x HDMI, 2 x DisplayPort
<b>LAN Ports</b>	1 x Intel® I219-LM Gigabit LAN (Support Intel® AMT 15.0), 1 x Intel® I225-LM Gigabit LAN (Up to 2.5GbE)
<b>Extended Interface</b>	1 x MiniPCIe with SIM slot (support mSATA), 1 x M.2 2280 Key M support PCIe Gen4 for NVMe, 1 x M.2 2230 Key E for Wi-Fi and Bluetooth, 1 x PCIE X16 slot support PCIe Gen4
<b>Internal I/O</b>	3 x SATA3, 4 x RS232, 2 x USB2.0, 1 x LVDS, 1 x LCD inverter connector , 1 x GPIO ,1 x Audio, 1 x SMBus
<b>Rear I/O</b>	2 x HDMI, 2 x DisplayPort, 1 x Audio, 2 x LAN, 6 x USB3.2 Gen2, 2 x RS232/RS422/RS485
<b>Audio</b>	Realtek ALC888S HD Audio
<b>Power Requirement</b>	Standard 24-pin ATX power supply or 4-pin 9~35V
<b>Dimensions</b>	170mm x 170mm (L x W)
<b>Operating Temperature</b>	0 ~ 60° C (32 ~ 140° F)
<b>Storage Temperature</b>	-20 ~ 80 °C (-4 ~ 176 °F)

<b>Relative Humidity</b>	10 ~ 90% (non-condensing)
<b>OS Software Supported</b>	Windows 10 64-bit
<b>Global P/N / SKU</b>	2809147

## Ordering Options

LV-67135 - With Core™ i5-11500HE, QM580E, Cooler Fan, HDMI, DP, LVDS LV-67133 - With Core™ i3-11100HE, QM580E, Cooler Fan, HDMI, DP, LVDS LV-6713C - With Celeron® 6600HE, QM580E, Cooler Fan, HDMI, DP, LVDS LV-6713W7R - With Xeon® W-11865MRE, RM590E, Cooler Fan, HDMI, DP, LVDS LV-6713W7L - With Xeon® W-11865MLE, RM590E, Cooler Fan, HDMI, DP, LVDS LV-6713W5R - With Xeon® W-11555MRE, RM590E, Cooler Fan, HDMI, DP, LVDS LV-6713W5L - With Xeon® W-11555MLE, RM590E, Cooler Fan, HDMI, DP, LVDS LV-6713W3R - With Xeon® W-11155MRE, RM590E, Cooler Fan, HDMI, DP, LVDS LV-6713W3L - With Xeon® W-11155MLE, RM590E, Cooler Fan, HDMI, DP, LVDS - **Note1 (LVDS):** Onboard 18/24-bit single/dual channel +3.3V/ +5V/ +12V **Note2 (Additional VGA or 2nd LVDS):** ADP-3355 - DisplayPort to VGA module (For VGA) or ADP-3460 - DisplayPort to LVDS module (For 2nd LVDS). Please contact with Sales for OEM version. **Note3:** W-11865MRE, W-11555MRE, W-11155MRE can operate within -40°C~85°C