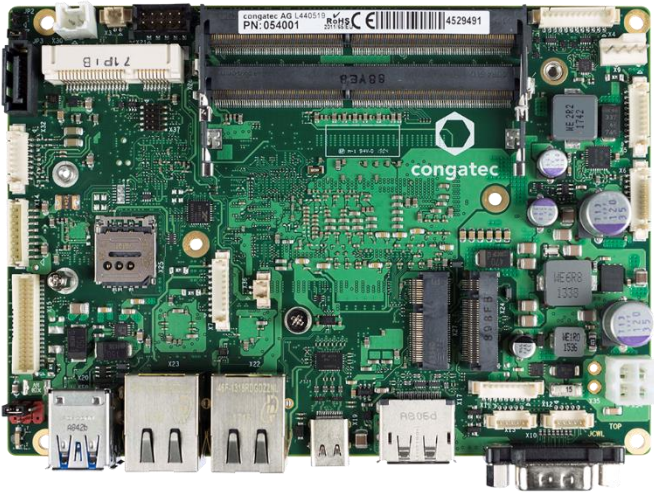


# INDUSTRIAL 3.5" QUAD CORE SBC

## conga-JC370



- Highest Performance 3.5" Single Board Computer
- 8<sup>th</sup> Generation Intel® Core™ SOC processors with up to 4 cores
- Intel® UHD-Graphics 610/620, up to 24 Execution Units
- Up to 64 GByte dual channel DDR4 2400 MT/s
- Multiple Expansion card sockets
- Flexible internal and external Video interfaces
- Wide Range Power Input 12 – 24V
- congatec embedded Board Controller Features

<b>Formfactor</b>	Industrial 3.5" Juke Board   146 x 102 mm (~ 5.75" x 4.02")					
<b>CPU</b>	Intel® Core™ i7-8665UE	4 Cores   8 Threads	1.7 GHz   4.4 GHz (turbo)	8 MB Cache	15 W TDP (12.5-25W cTDP)	
	Intel® Core™ i5-8365UE	4 Cores   8 Threads	1.6 GHz   4.1 GHz (turbo)	6 MB Cache	15 W TDP (12.5-25W cTDP)	
	Intel® Core™ i3-8145UE	2 Cores   4 Threads	2.2 GHz   3.9 GHz (turbo)	4 MB Cache	15 W TDP (12.5-25W cTDP)	
	Intel® Celeron® 4305UE	2 Cores   2 Threads	2.0 GHz	2 MB Cache	15 W TDP	
<b>DRAM</b>	Dual channel DDR4 up to 2400 MT/s   2x SO-DIMM   up to 2x 32 GByte					
<b>Chipset</b>	Integrated in SoC					
<b>Ethernet</b>	Intel® Gigabit Ethernet with TSN support   Intel® Gigabit Ethernet with AMT support					
<b>Sound</b>	High Definition Audio over DP/HDMI   Realtek ALC888S-VD Audio Codec					
<b>Graphics</b>	Intel® UHD-Graphics 610/620 Graphics, up to 24 Execution Units					
<b>Expansion Sockets</b>	M.2 key M size 2280 (PCIe x4/SATA/Intel® Optane™)   M.2 key B size 2242/3042 (PCIe/USB/SIM)   M.2 key E size 2230 (PCIe/CNVio/USB)   miniPCIe card slot full/half-size (PCIe/SATA/USB/opt. SIM)   microSIM card slot					
<b>Internal Connectors</b>	LVDS 24bit Dual channel (or opt. eDP)   opt. 2nd LVDS via external adapter   Backlight (power/control)   SATA/eSATA/SATADOM   Disk Power 5V   Dual USB 2.0   Audio Front Panel (HPout/MIC)   LINEout and DMIC   COM port (RS232/422/485)   Two 4 pin COM ports (RS232)   opt. CAN   8 bit general purpose I/O   Management I/O (opt. 8 GPIOs)   I <sup>2</sup> C/SM Bus   Front panel (power switch, LEDs, reset,...)   Power DC In (12-24 V)   RTC battery   Intrusion (case open)   FAN (4pin)					
<b>External Connector (Front Panel)</b>	DisplayPort++ (or opt. HDMI)   USB 3.1 Gen.2 Type C (PD and DP Alt. Mode)   Dual USB 3.1 Gen.2 Type A   Dual LAN RJ45   COM DE9 RS232/422/485					
<b>congatec embedded Board Controller</b>	Multi Stage Watchdog   non-volatile User Data Storage   Manufacturing and Board Information   Board Statistics   I <sup>2</sup> C bus (fast mode, 400 kHz, multi-master)   Power Loss Control   Hardware Health Monitoring   POST Code redirect					
<b>Embedded BIOS</b>	AMI Aptio® 2.X (UEFI) BIOS   SM-BIOS   BIOS Update   Logo Boot   Quiet Boot   HDD Password					
<b>Security</b>	Trusted Platform Module (TPM 2.0)   Secure Root of Trust   Secure Memory Encryption   Secure Encrypted Virtualization					
<b>Power Specification</b>	Power Supply 12-24V   Power Management   ACPI S3/S4/DeepS5   Wake on time from S5   FAN monitored & controlled   see user's guide for full details					
<b>Operating Systems</b>	Microsoft® Windows 10 (64bit only)   Microsoft® Windows 10 IoT Enterprise (64bit only)   Linux					
<b>Temperature</b>	Operating Temperature: 0 to +60°C		Storage Temperature: -20 to +70°C			
<b>Extended Temperature</b>	Screening service on request:		-25 to +80°C (burn-in & cold-soak) -40 to +85°C (burn-in & cold-soak)			
<b>Humidity</b>	Operating: 10 - 90% r. H. non cond.		Storage: 5 - 95% r. H. non cond.			
<b>Size</b>	146 x 102 mm (~ 5.75" x 4.02")					