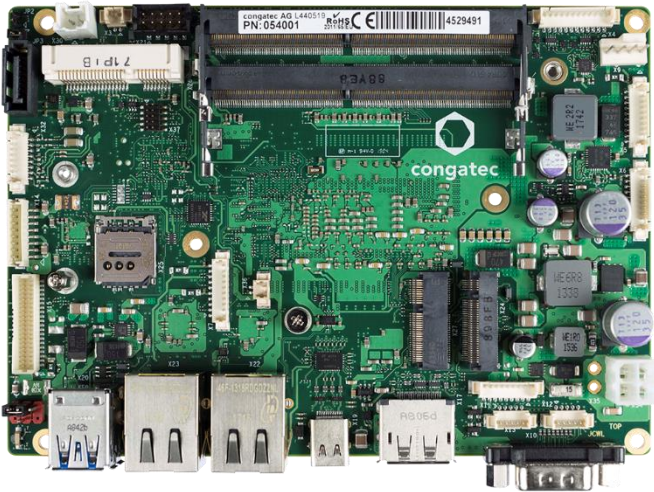


INDUSTRIAL 3.5" QUAD CORE SBC

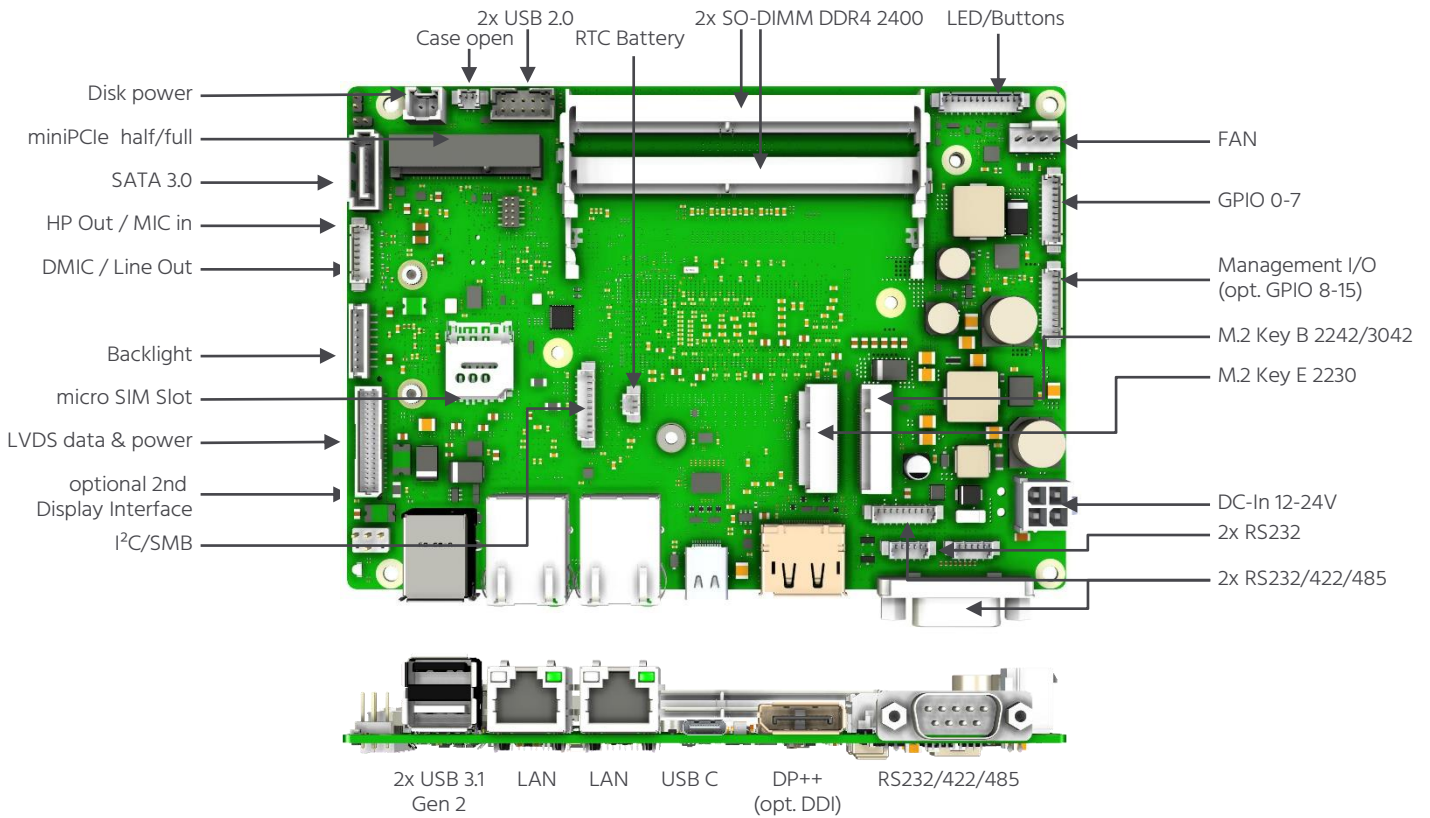
conga-JC370



- Highest Performance 3.5" Single Board Computer
- 8th 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

Formfactor	Industrial 3.5" Juke Board 146 x 102 mm (~ 5.75" x 4.02")					
CPU	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	
DRAM	Dual channel DDR4 up to 2400 MT/s 2x SO-DIMM up to 2x 32 GByte					
Chipset	Integrated in SoC					
Ethernet	Intel® 2.5GbE with TSN support under Linux / Intel® 1GbE with AMT support (AMT with i7 or i5 only)					
Audio	High Definition Audio Realtek ALC888S-VD Audio Codec					
Graphics	Intel® UHD-Graphics 610/620 Graphics, up to 24 Execution Units					
Expansion Sockets	M.2 key M size 2280 (PCIe x4/SATA) 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					
Internal Connectors	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) 8 bit general purpose I/O Management I/O (opt. 8 GPIOs) I ² C/SM Bus Front panel (power switch, LEDs, reset,..) Power DC In (12-24 V) RTC battery Intrusion (case open) FAN (4pin)					
External Connector (Front Panel)	DisplayPort++ 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					
congatec embedded Board Controller	Multi Stage Watchdog non-volatile User Data Storage Manufacturing and Board Information Board Statistics I ² C bus (fast mode, 400 kHz, multi-master) Power Loss Control Hardware Health Monitoring POST Code redirect					
Embedded BIOS	AMI Aptio® 2.X (UEFI) BIOS SM-BIOS BIOS Update Logo Boot Quiet Boot HDD Password					
Security	Trusted Platform Module (TPM 2.0) Secure Root of Trust Secure Memory Encryption Secure Encrypted Virtualization					
Power Specification	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					
Operating Systems	Microsoft® Windows 10 (64bit only) Microsoft® Windows 10 IoT Enterprise (64bit only) Linux					
Temperature	Operating Temperature: 0 to +60°C		Storage Temperature: -20 to +70°C			
Extended Temperature	Screening service on request:		-25 to +80°C (burn-in & cold-soak) -40 to +85°C (burn-in & cold-soak)			
Humidity	Operating: 10 - 90% r. H. non cond.		Storage: 5 - 95% r. H. non cond.			
Size	146 x 102 mm (~ 5.75" x 4.02")					

conga-JC370 | Connectors



conga-JC370 | Block diagram

