



CONNECT AND PROTECT

Embedded COM Systems



Systems – embedded COM systems

EMBEDDED TEST SYSTEMS FOR COME TYPE 6



13017006

- Embedded system with x86 COM Express type 6 module
- A variety of interfaces, such as PCIe, mPCIe, USB, DisplayPort and XMC slot
- Internal interfaces for additional boards to enhance functionality, e.g. for fieldbus interfaces or TFT connector
- Slot for an XMC module
- With the prototype module available as an accessory, you have access to various signals such as GPI/O, I²C, etc.
- Power logic designed as plug-in module, 18 to 26.4 V_{DC} input, can be replaced easily
- Excellent modular cooling solution, can be easily adapted to different processor performance levels and environmental conditions

DELIVERY INCLUDES (completely assembled, cabled and tested)

Item	Qty.	Description
1	1	Shielded enclosure, St, powder-coated, black, RAL 9005
2	1	Heat sinks, cooling without fans
3	1	COM carrier
4	1	Type 6 Basic module with Intel® Core™ i7-6820EQ quad core processor; 8 GB DDR4-SODIMM-2400
5	1	120 GB SSD hard drive
6	1	Conversion kit for the installation of Compact, Basic or Mini COM Express modules
7	1	XMC cover
8	1	Fan for XMC module

ORDER INFORMATION

Description	Part no.
Embedded COM System with congatec conga-TS170/i7-6820EQ (045900) COM Express Type 6 Basic module with Intel® Core™ i7-6820EQ quad core processor with 2.8 GHz up to 3.5 GHz, 8 MB L2 cache, GT2 graphics and 2133 MT/s dual channel DDR4 memory interface, Chipset QM170	21265-030

Accessories

Table power supply, 120 W, 100 to 240 V _{AC} , 20 V _{DC} /6 A, 1 piece	
Table power supply, 90 W, 100 to 240 V _{AC} , 19 V _{DC} /4.74 A, 1 piece	
Mains cable, SCHUKO/UTE SCHUKO/UTE plug, IEC 60320 socket, 2.5 m, 1 piece	62150-191
Mains cable, BS British Standard plug, IEC 60320 C13 socket, 2.5 m, 1 piece	60103-137
Equipment cable USA USA connector, IEC 60320 female connector, 2 m, 1 piece	60103-141
Mains cable, IEC IEC 60320 C14 plug, IEC 60320 C13 socket, 2.5 m, 1 piece	60197-053
Table stand for embedded COM system 1 piece	
Wall mount set for embedded COM system 1 piece	
Vesa mount for embedded COM system 1 piece	
Postcode module 1 piece	
Prototype module 1 piece	
Ethernet module 1 x GbE, 1 piece	
LVDS module 1 piece	

Systems – embedded COM systems

EMBEDDED TEST SYSTEMS FOR COME TYPE 6

TECHNICAL DATA

Enclosure: Width x height x depth	375.5 mm x 44.45 mm (without heat sink) x 250 mm
Cooling	Fanless (COM module), 40 mm fan (XMC), heat sink - large
Input voltage	18 to 26.4 V _{DC}
Hard-drive mount	1 x 2.5"
Hard drive	120 GB S-ATA SSD
COM module	Type 6 Basic module with Intel® Core™ i7-6820EQ quad core processor; 8 GB DDR4-SODIMM-2400
Internal interfaces	PCIe x4 slots: 1 (PCIe Gen 3) mPCIe slots: 1 (PCIe Gen 3) mPCIe / mSATA slots: 1 (PCIe Gen 3, S-ATA 3.0) S-ATA connector: 3 (S-ATA 3.0) Memory card slot: 1 (MicroSD) SIMM slot: 2 (Micro SIMM) Serial port: 2 Parallel port: 1 PS/2 mouse and keyboard connector: 1 Speaker: 1 LVDS module adapter: 1 Fieldbus module connector: 1 Interface for POST code display: 1 Prototype board interface: 1 XMC module slots: 1 XMC I/O signal header: 1
External interfaces	Front: DisplayPort: 2 (DP 1.1 and DP 1.2) DVI: 1 (DVI-D) USB: 4 (USB 3.0) Audio: 1 (HD Audio, S/PDIF Optical) Ethernet: 1 (10/100/1000 Mbps) Rear side: VGA: 1 Serial port: 1 (DSUB9) Power supply: 1 (18 to 26.4 V _{DC})

NOTE

- Other configurations available on request

Systems – embedded COM systems

EMBEDDED SYSTEMS, COME TYPE 6



Frontansicht (21265-010)

13017002



Frontansicht (21265-020)

13017005

- Embedded system with x86 COM Express type 6 module
- A variety of interfaces, such as PCIe, mPCIe, USB, DisplayPort
- Internal interfaces for additional boards to enhance functionality, e.g. for fieldbus interfaces or TFT connector
- Power logic designed as plug-in module, 18 to 26.4 V_{DC} input, can be replaced easily
- Excellent modular cooling solution, can be easily adapted to different processor performance levels and environmental conditions

DELIVERY INCLUDES (completely assembled, cabled and tested)

Item	Qty.	Description
1	1	Shielded enclosure, St, powder-coated, black, RAL 9005
2	1	Heat sinks, cooling without fans
3	1	COM carrier
4a	1	21265-010 : Type 6 Compact module with Intel® Celeron® 3955U quad core processor; 4 GB DDR4-SODIMM-2400
4b	1	21265-020 : Type 6 Basic module with Intel® Core™ i7-6820EQ quad core processor; 8 GB DDR4-SODIMM-2400
5	1	120 GB SSD hard drive
6	1	Conversion kit for the installation of Compact, Basic or Mini COM Express modules

ORDER INFORMATION

Description	Part no.
Embedded COM System with congatec conga-TC170/3955U (045203) COM Express Type 6 Compact module with Intel® Celeron® 3955U dual core processor with 2.0 GHz, 2 MB L2 cache and 2133 MT/s dual channel DDR4 memory interface	21265-010
Embedded COM System with congatec conga-TS170/i7-6820EQ (045900) COM Express Type 6 Basic module with Intel® Core™ i7-6820EQ quad core processor with 2.8 GHz up to 3.5 GHz, 8 MB L2 cache, GT2 graphics and 2133 MT/s dual channel DDR4 memory interface, Chipset QM170	21265-020

Accessories

Table power supply, 120 W, 100 to 240 V _{AC} , 20 V _{DC} /6 A, 1 piece	
Table power supply, 90 W, 100 to 240 V _{AC} , 19 V _{DC} /4.74 A, 1 piece	
Mains cable, SCHUKO/UTE SCHUKO/UTE plug, IEC 60320 socket, 2.5 m, 1 piece	62150-191
Mains cable, BS British Standard plug, IEC 60320 C13 socket, 2.5 m, 1 piece	60103-137
Equipment cable USA USA connector, IEC 60320 female connector, 2 m, 1 piece	60103-141
Mains cable, IEC IEC 60320 C14 plug, IEC 60320 C13 socket, 2.5 m, 1 piece	60197-053
Table stand for embedded COM system 1 piece	
Wall mount set for embedded COM system 1 piece	
Vesa mount for embedded COM system 1 piece	
Postcode module 1 piece	
Prototype module 1 piece	
Ethernet module 1 x GbE, 1 piece	
LVDS module 1 piece	

Systems – embedded COM systems

EMBEDDED SYSTEMS, COME TYPE 6

TECHNICAL DATA

Order No.	21265-010	21265-020
Enclosure: Width x height x depth	250 mm x 44.45 mm (without heat sink) x 250 mm	250 mm x 44.45 mm (without heat sink) x 250 mm
Cooling	Fanless, heat sink - mid size	Fanless, heat sink - large
Input voltage	18 to 26.4 V _{DC}	18 to 26.4 V _{DC}
Hard-drive mount	1 x 2.5"	1 x 2.5"
Hard drive	120 GB S-ATA SSD	120 GB S-ATA SSD
COM module	Type 6 Compact module with Intel® Celeron® 3955U dual core processor; 4 GB DDR4-SODIMM-2400	Type 6 Basic module with Intel® Core™ i7-6820EQ quad core processor; 8 GB DDR4-SODIMM-24000
Internal interfaces	PCIe x4 slots: 1 (PCIe Gen 3) mPCIe slots: 1 (PCIe Gen 3) mPCIe / mSATA slots: 1 (PCIe Gen 3, S-ATA 3.0) S-ATA connector: 3 (S-ATA 3.0) Memory card slot: 1 (MicroSD) SIMM slot: 2 (Micro SIMM) Serial port: 2 Parallel port: 1 PS/2 mouse and keyboard connector: 1 Speaker: 1 LVDS module adapter: 1 Fieldbus module connector: 1 Interface for POST code display: 1 Prototype board interface: 0 XMC module slots: 0 XMC I/O signal header: 0	PCIe x4 slots: 1 (PCIe Gen 3) mPCIe slots: 1 (PCIe Gen 3) mPCIe / mSATA slots: 1 (PCIe Gen 3, S-ATA 3.0) S-ATA connector: 3 (S-ATA 3.0) Memory card slot: 1 (MicroSD) SIMM slot: 2 (Micro SIMM) Serial port: 2 Parallel port: 1 PS/2 mouse and keyboard connector: 1 Speaker: 1 LVDS module adapter: 1 Fieldbus module connector: 1 Interface for POST code display: 1 Prototype board interface: 0 XMC module slots: 0 XMC I/O signal header: 0
External interfaces	Front: DisplayPort: 2 (DP 1.1 and DP 1.2) DVI: 1 (DVI-D) USB: 4 (USB 3.0) Audio: 1 (HD Audio, S/PDIF Optical) Ethernet: 1 (10/100/1000 Mbps) Rear side: VGA: 1 Serial port: 1 (DSUB9) Power supply: 1 (18 to 26.4 V _{DC})	Front: DisplayPort: 2 (DP 1.1 and DP 1.2) DVI: 1 (DVI-D) USB: 4 (USB 3.0) Audio: 1 (HD Audio, S/PDIF Optical) Ethernet: 1 (10/100/1000 Mbps) Rear side: VGA: 1 Serial port: 1 (DSUB9) Power supply: 1 (18 to 26.4 V _{DC})

NOTE

- Other configurations available on request

Systems – ServicePLUS

APPLICATION EXAMPLES



- Hybrid system, modification of a MicroTCA single-module board cage into a 3 U chassis to DIN EN 60297 ¹²⁹⁰⁸⁰⁰⁷



- MicroTCA system, 1 U for 6 single mid-size AMC modules; power supply, increased air inlet and exhaust area with inwardly curved side panels ¹²⁹⁰⁸⁰⁰⁵



- MicroTCA chassis with hot-swap fan unit and power supply ¹²⁹⁰⁹⁰⁰¹



- CompactPCI chassis with hot-swap fan unit and custom finishing ¹²³⁰⁹⁰⁰²



- CompactPCI chassis with 48 V_{DC} power supply ¹²³⁰⁹⁰⁰¹



- 2 slot, 2 U AdvancedTCA chassis with custom colour ¹²⁷⁰⁹⁰⁰³

Systems – ServicePLUS