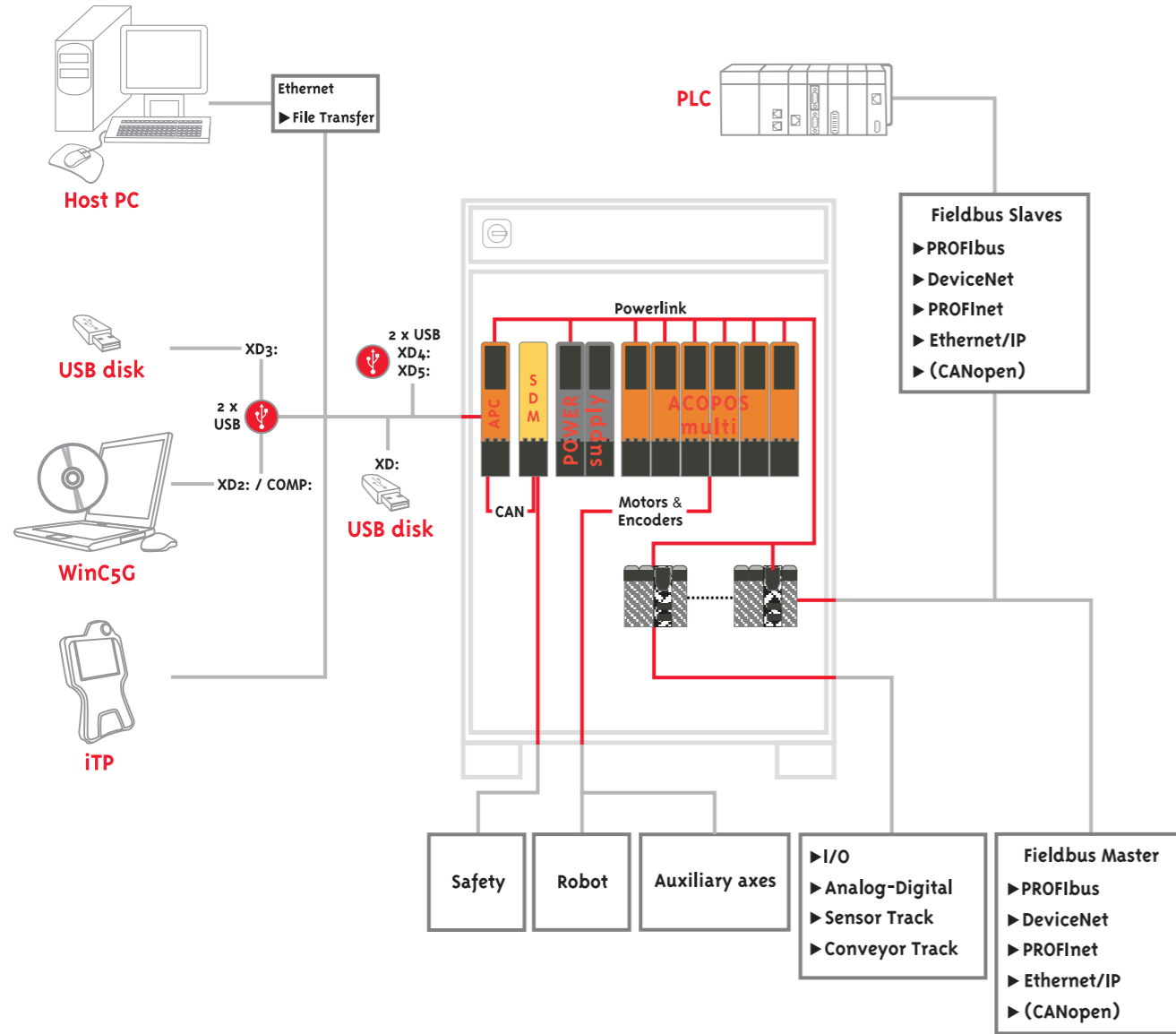


FUNCTIONAL DIAGRAM



MAIN CHARACTERISTICS:

- Dimensions: 800x500x1100 mm
- Working temperature: 5 to 45°C (5 to 55°C with cooler)
- Humidity: 90%max, no condensation
- Extended line power range: 400 to 500V

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Next Generation Robot Control Unit

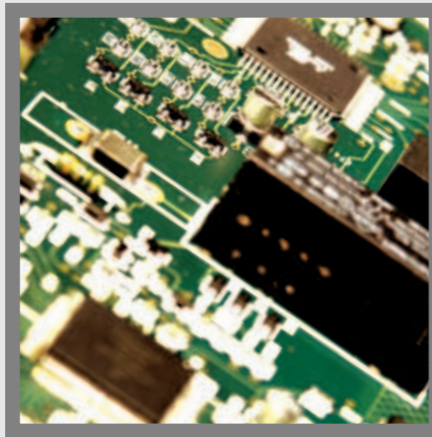
NEW



- FAST PROCESSING WITH DUAL CORE ARCHITECTURE
- MODULAR SYSTEM FOR DRIVES UNIT & I/O
- FREE & ERGONOMIC SPACE FOR APPLICATION FUNCTIONS INTEGRATION
- ENERGY SAVING SYSTEM
- COMPACT DIMENSIONS

C5G Next Generation Robot Control Unit

2010 marks an important step forward for Comau Robotics: introducing the **C5G**, the new generation of Robot Control Unit. Compact dimensions, increased performance, reduced energy consumption, advanced safety functions are only a few of the main characteristics of this innovative product.



■ MULTI APPLICATIONS MANAGEMENT

Possibility to manage many applications at the same time.

■ SIMPLE AND INTUITIVE USER INTERFACE

■ FAST AND FLEXIBLE PROGRAMMING

The PDL2 programming language ensures the highest robot performance. It also guarantees very simple use thanks to the WinC5G software, which offers agile programming from PC environment.

■ 3D OFF-LINE PROGRAMMING

■ HIGH PROCESSING POWER

The **C5G** uses the latest generation of industrial PC's APC820 with Core 2 Duo technology CPU which is capable to obtain high performances with low energetic consumption.

■ ENERGY SAVING

- Lowest consumption in stand by, low consumption during operations
- Cooling system proportional to the level of the Control Unit's operations
- Energy network recover system with program of high dynamic content



POWER SAVING

■ SIMPLIFIED INSTALLATION AND MAINTENANCE

The new Comau robots use the new system of modular servo drivers ACOPOSmulti. This family of components defines new standards in power electronic equipments in terms of performances, compactness, cooling and easy maintenance and installation.

■ FLEXIBILITY AND RELIABILITY

The new generation of field busses based on Hilscher technology, integrated by B&R in their remote I/O X20 family, guarantees a flexible and reliable interface in every customer application. Furthermore are available modular interfaces like digital I/O, analog I/O and for many kind of position transducer - encoder, resolver, etc-.

■ SAFETY

Integrated in the SDM module, TUV certified (dual channel emergency stop, enabling device, logic drive enable) unbrake function on the robot arm and interlock function for human- robot cooperation.

■ MODULARITY / EXPANDIBILITY

Modular system for drives up to 9 or 10 axis in the base cabinet function of the power.

■ SIMULTANEOUS MANAGEMENT OF SEVERAL ROBOTS

Hardware architecture designed to manage up to 40 axes in "multi-arm" configuration.

■ MAIN SOFTWARE FUNCTIONALITIES AVAILABLE:

- **AUTOMATIC PAYLOAD IDENTIFICATION:** Automatic identification of the payload to optimize the robot movement.
- **COLLISION DETECTION:** Emergency stop of the robot in case of a collision to protect the mechanic and the equipment.
- **COOPERATIVE AND SYNCHRONIZED MOTION:** Coordinated and simultaneous management of several robots and auxiliary axes (linear track, servo gun, positioners and other application equipment).
- **CONVEYOR E SENSOR TRACKING:** Tracking of parts in motion on linear and circular conveyors. Precision in following the path by use of different types of external sensors.
- **JOINT SOFT SER ACCURANCY:** Algorithm for the adaptation of the actual kinematics to the theoretical model programmed off-line.
- **INTERFERENCE REGIONS:** Regions of various shapes can be dynamically defined for limiting the robot working space.
- **ROBOT ABSOLUTE ACCURANCY:** Algorithm for the adaptation of the actual kinematics to the theoretical model programmed off-line.

■ WIRELESS TEACH PENDANT:

The innovative Wireless teach Pendant allows freedom of action and an intuitive simplicity. **WiTP is the only teach pendant which can communicate with the central unit without large amount of harnesses within 100 meters range.** It is light, ergonomic, handy, extremely safe and user friendly. It can operate simultaneously with several central unit in complete safety. A clear and innediate reading of programming software is possible thanks to a very bright wide TFT screen of 6.4 inch. There is always the possibility to check what is happening into the robot cell and on the production line.