EQIO

RMC-6528

PRODUCT MANUAL

5U Eight-Slot CompactPCI Integrated Rack Platform

Rack-mount CPCI platform · Industrial me...



Application illustration (not a product photo); shipped units may differ.

Measurement and control, made easy.

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Easy · Quick · Input · Output

01 OVERVIEW

5U Eight-Slot CompactPCI Integrated Rack Platform

Rack-mount CPCI platform · Industrial measurement and control · Equipment room scheduling · Local operations · CompactPCI

RMC-6528 integrates six inch display and keyboard, configured with 1 system slot, 7 expansion slot and dual 250W AC power, uses side door card-cage structure, facilitates rack system local operation and maintenance.

Front panel at the same time settings USB, switch and status indicator, internal fan uses front rear airflow. Display operation, board installation and power centralized the same chassis, can used for automation test, rack measurement and control and requires local viewing status industrial system.



Application illustration (not a product photo); shipped units may differ.

Key features

- 5U rack integrated structure
- Six inch display and keyboard
- 1 system slot, 7 expansion slot
- Dual 250W AC power
- Front rear airflow and internal fan

02 FUNCTIONS

Functions and engineering value

Rack internal local operation

5U platform front panel integrates six inch display, keyboard, USB, switch and status indicator, facilitates cabinet adjacent completes status view and basic operation. Display and operation function required and selected system controller software and I/O together with, not should inferred display resolution or independent compute capability.

8-slot backplane and card-cage organize

6U 8-slot backplane provides 1 system slot and 7 expansion slot, side door structure facilitates organize board installation and service. Controller, acquisition and communications module can per task combination, installation when check slot occupancy, board depth, connector and cables, ensure side maintenance space can used.

Dual power and front rear airflow

Platform configured with dual 250W AC power and internal fan, uses front rear airflow organize cooling, housing dual all-aluminium-alloy layer structure. Dual power operation method and can used output must follow actual solution confirm, internal fan maintenance method should also combined with power-off and cabinet operation procedure define.

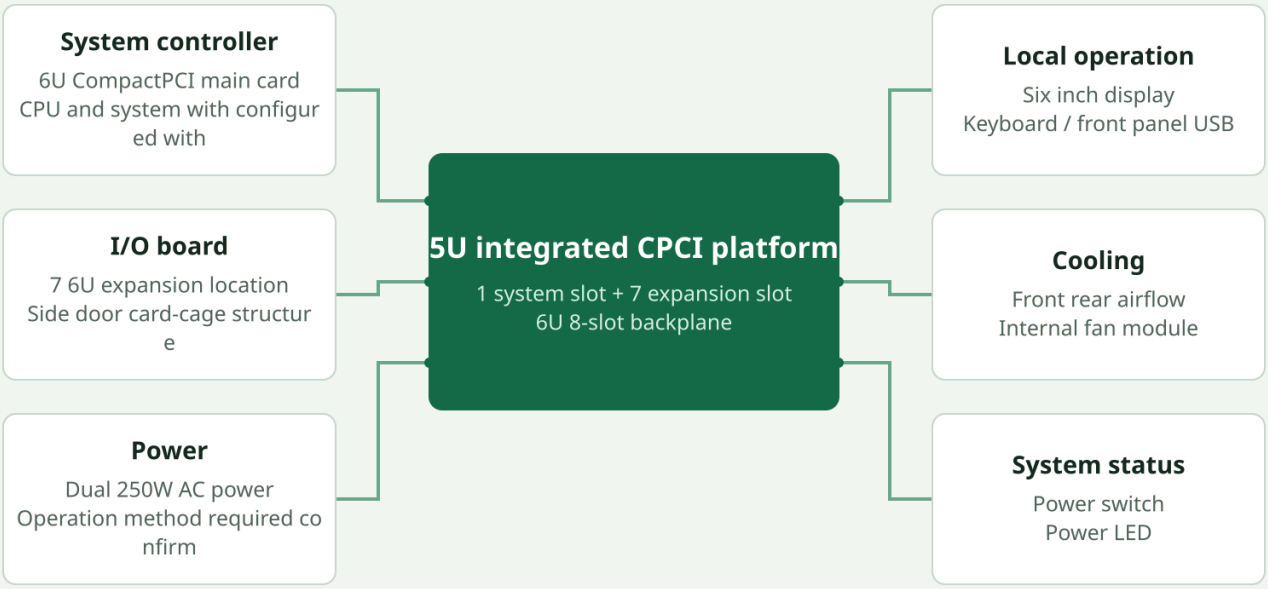
The functional notes explain the product’s role from published configuration. Optional functions, software and peripherals follow the project definition. Chip capability is not the same as implemented I/O.

03 ARCHITECTURE

Product functional architecture

FUNCTIONAL BLOCK DIAGRAM

RMC-6528



Functional relationships · lines do not show internal circuits, pins or dedicated bus topology

From published specification illustrative functional grouping, does not show internal circuits, on-board bus or signal routing; I/O direction actual protocol shall prevail. Local display per main card matching, power quantity not indicates redundant or combined and output claim.

Platform and I/O

This product 6U 8-slot CompactPCI backplane, local display keyboard and dual power consists of integrated rack platform. CPU from separately confirm 6U system controller provides; data in 3rd-generation Intel Core i7 configured with reference, not accordingly specified not published CPU model, memory or system performance.

> **Reading the diagram**
>
> Solid lines show published functional relationships, not on-board buses, bridge chips or connector pins. Optional controllers, radios, storage and software follow the configuration and interface files.

04 SPECIFICATIONS

Technical specifications

Compiled from published product data. Batch, I/O and environmental ratings follow the order confirmation.

Mechanics and system

Structure	All-aluminium dual layer chassis design
Front panel	Has power LED power switch, USB I/O, keyboard, 6-inch display
Cooling	Front rear airflow design, fan module installation to chassis internal (power 12W, fan noise≤60DB)
Process	Front rear aluminium alloy panel brushed anodized process, surface dual layer paint process

I/O and expansion

Backplane	6U 8C integrated backplane, 1 6U system slot and 7 6U expansion slot, 2 3U 8HP power slot
Backplane bus	CompactPCI®bus, 64bit/33MHz or 66MHz
Controller configuration	6U CompactPCI® 3rd-generation Intel®Core™i7 processor system controller

Mechanical specifications and system requirements

Dimensions / weight	Weight≤15.0kg (not including main card)
Environmental ratings	Operating temperature: 0°C~60°C, -20°C~70°C (industrial grade), -40°C~80°C (military-grade), storage temperature: -20°C~85°C
Power	250W AC dual power

05 APPLICATIONS

From product capability to applications

Local can operation measurement and control cabinet

Can system slot and expansion slot configured with controller and measurement and control board, uses front panel display, keyboard completes task view and parameters operation. Suited to requires cabinet local maintenance ingress system, application display layout and keyboard operation range required combined with six inch display actual specification design.

Multi module automation test

7 expansion location different test and communications board card provides installation space, system controller run test software and coordinate task. Measurement channel, accuracy, synchronous and trigger all by specific board solution determine, configured with relatively multi module when still need verify against bus resources, power and cooling.

Equipment room equipment status maintenance

Front panel local display can used for view system status or maintenance UI, keyboard and USB provides operation and peripherals ingress. Front rear airflow required and cabinet air stream direction consistent, side door and internal fan maintenance requires reserved space, maintenance permission and operation procedure from system software and field policy definition.

Integration checks

Controller and display	Confirm 6U system controller, six inch display connect method, resolution and keyboard compatible.
Slot occupancy and maintenance	Check 7 expansion location, side door on range and board removable space.
Power mode	Dual 250W power branch, all stream, redundant and shipped with the unit wiring required single independent confirm.
Airflow and version	Front rear airflow per cabinet layout, temperature etc.grade per product and all board version confirm.

06 CONFIGURATION

Configuration, options and selection

Configuration

Can paired with 6U CompactPCI system controller, provides commercial temperature and expansion temperature version.

Temperature version	0~60°C / -20~70°C / -40~80°C

Selection guide

Order confirmation	Batch, I/O and environmental ratings follow the order confirmation
Published data	Compiled from published product data; EQIO provides selection and system integration
Configuration talk	Share the application, I/O count, environment and software so a configuration can be proposed

Request a quotation and selection support

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EQIO

Easy · Quick · Input · Output

BRAND

Measurement and control, made easy.



EQIO product family · concept rendering

Brand story

EQIO builds measurement and control products and systems. The name stands for Easy Quick Input Output: Easy is a clear structure that is quick to learn, Quick is a direct path to efficient delivery, and Input / Output is every link between the device under test and the control system.
The soft single-cycle wave inside the Q links the brand to signals, acquisition and I/O. “Measurement and control, made easy” is our promise for every selection, integration and delivery.

What we do

Products

Data acquisition, test instruments, control and I/O, modular platforms, software, cables

Systems

Configured to the measurand, channels, accuracy and software, from design to commissioning

Support

Selection advice, training, maintenance and calibration

How we deliver

01
Requirements

02
Solution design

03
Build & integration

04
Factory test

05
Delivery & training

06
Ongoing support

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