

B&R INDUSTRIAL AUTOMATION

4PP420.0571-75

Power Panel PP420 5.7-inch Embedded Controller HMI

Verified technical specifications

Parameter	Official value
Display	5.7-inch TFT color
Resolution	320 x 240 pixels (QVGA)
Colors	262,144
Brightness	500 cd/m ²
Touchscreen	Analog resistive
Processor	Geode LX800, 500 MHz
Memory	128 MB SDRAM; 512 kB battery-backed SRAM
Application storage	CompactFlash Type I
Interfaces	Ethernet 10/100; RS232; 2 x USB
Expansion	1 x aPCI slot
Power	24 VDC
Protection	IP65 front
Dimensions	21.2 x 15.6 x 7.6 cm
Weight	1.7 kg

Model-specific summary

B&R 4PP420.0571-75 is a 5.7-inch Power Panel PP420 embedded controller HMI with QVGA touch, one aPCI slot, Ethernet, RS232 and USB.

4PP420.0571-75 selection and integration notes

Expansion

- The single aPCI slot supports documented B&R communication modules
- The fitted option and its external terminal blocks must be recorded before replacement
- Hardware configuration and firmware must match the installed aPCI module

Display

- The 5.7-inch TFT provides 262,144 colors at QVGA resolution
- The resistive touch controller supports panel-based operator input
- The documented backlight half-brightness time is 50,000 hours

Retention

- The 512 kB SRAM is battery-backed for retained application data
- The real-time clock is battery-backed
- Use the documented battery service procedure after backing up the application

Customer selection questions

What should be imaged before replacing B&R 4PP420.0571-75?

Create a verified backup of the CompactFlash card and save the project, retained data, Ethernet settings, serial configuration and aPCI hardware definition.

Can B&R 4PP420.0571-75 use any aPCI communication card?

No. Match the exact B&R aPCI module, terminal blocks, network role and Automation Studio configuration from the installed machine.

Which connector powers B&R 4PP420.0571-75?

The unit uses 24 VDC and the official description calls for 0TB103.9 or 0TB103.91 when the connector is not included.

Why may retained values change after servicing B&R 4PP420.0571-75?

The SRAM and real-time clock are battery-backed, so depleted battery condition or incorrect service timing can affect retained data.