Allen-Bradley | 1771-DXPS

Technical Reference • Apter Power technical publication

Functional identity

Allen-Bradley 1771-DXPS expands a 1771 control coprocessor with two additional serial communication channels. It operates alongside a compatible 1771-DMC family main module in an engineered 1771 chassis.

Source scope

Rockwell Automation 1771-UM676 Control Coprocessor User Manual. The published interface facts apply to the 1771-DXPS expander in an approved 1771 control-coprocessor assembly.

Technical parameter	Confirmed value
Module role	Serial expander
Main-module companions	1771-DMC, 1771-DMC1 or 1771-DMC4
Added serial ports	2
Assembly width	2 chassis slots with main module
System family	1771 Universal I/O
Expander port labels	COMM 2 and COMM 3

Interface interpretation

The 1771-DXPS supplies COMM 2 and COMM 3 to a control coprocessor installation. These additional channels can segregate serial field-device traffic from the main module communication paths.

The expander and selected main module occupy two adjacent chassis positions as one functional assembly. The main module supplies the computation and application context; the expander does not replace it or function as an independent controller.

Engineering boundary

Port assignments and communication settings are application-specific. The 1771-DXPS adds channels to a compatible main module; it does not define an independent controller program.