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DS4201 Prototyping Board[1)]

Integrating customized circuits

The DS4201 Prototyping Board is a general-purpose platform intended to integrate customized circuits into the dSPACE system. The board provides the complete dSPACE PHS-bus interface electronics and space for mounting custom devices.

The end of life for this product has been set. Please see the footnote for more detailed information.

- Provides all the required electronics for connection to the dSPACE PHS bus
- Space for mounting custom devices
- Useful for additional I/O solutions



At a Glance
Key Benefits

The DS4201 Prototyping Board makes it possible to integrate customized circuits into dSPACE systems. It is the interface between custom I/O devices that can be mounted directly on the board and the dSPACE PHS bus, thus enabling the connection to the dSPACE system.

Technical Details

Parameter	Specification

Custom interface		• Bidirectional buffered 32-bit data bus • 8 interrupt lines (programmable) • 4 PHS-bus address signals • 13 predefined chip select outputs (for I/O ports) • 1 board select signal; read/write signals; I/O signals • Up to 25 MB/s transfer speed • 80-pin custom connector • Power lines (ground, +5 V, +12 V, -12 V)
Timing		• SYNCIN and SYNCOUT lines for input and output on several I/O boards
Physical connections		• 50-pin male Sub-D connector for external devices
Host interface		• One 16-bit ISA slot
Physical characteristics	Physical size	• 340 x 125 x 15 mm (13.4 x 4.9 x 0.6 in)
	Custom board size	• Up to 115 x 185 mm (4.5 x 7.3 in)
	Ambient temperature	• 0 ... 70 °C (32 ... 158 °F)
	Power supply	• +5 V ±5%, 500 mA (without custom module)

[1)]The end of life of the dSPACE PHS (peripheral high-speed) hardware for modular systems is planned for December 31, 2024. You can still buy the related products up to and including December 31, 2021. New Releases of dSPACE software will still support the dSPACE PHS hardware for modular systems until at least the end of 2023. After the end of life, no services of any kind will be available for these products. We advise against using the PHS hardware products in new projects. For new projects we recommend that you use SCALEXIO, the latest dSPACE technology for modular real-time systems.

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