

Properties	Basic (BA)	Standard (ST)	High Feature (HF)	High Speed (HS)
Application	Basic module	Standard module	Complex module	special modules for the high-speed applications
Effective range of the parameters that can be set	No parameters	for analog modules: - Channel - Load group / module ¹⁾ for digital modules: - Load group / module ¹⁾	Channel	Lastgruppe / Modul oder Kanal (Wirkungsbereich ist abhängig von der Art der Projektierung: kürzeste Eingangsverzögerungen)
parametrierbare Diagnose	keine Diagnose	for analog modules: - per channel - per load group / module ¹⁾ for digital modules: - per load group / module ¹⁾	per channel	je Kanal: kürzeste Bearbeitungszeiten
clock-synchronized mode	No	Yes	Supported by the following modules: - DI 16x24V DC HF: 6ES7521-1BH00-0AB0 - DI 32x24V DC HF: 6ES7521-1BL00-0AB0 - DQ 16x24V DC / 0,5A HF: 6ES7522-1BH01-0AB0 - DQ 32x24V DC / 0,5A HF: 6ES7522-1BL01-0AB0 - AI 8xU/I HS 6ES7531-7NF10-0AB0 - AQ 8xU/I HS 6ES7532-5HF00-0AB0 - AQ 8xU/I HF 6ES7532-5ND00-0AB0	Yes
Special features	There are only digital modules in the basic version, because for system-specific reasons analog modules always have parameters and diagnostics.	with analog modules: - universal modules - Precision $\geq 0,3\%$ - Common-mode voltage approx. 10V to 20V	with analog modules: - highest precision ($<0,1\%$) - high common-mode voltage, if necessary, single channel isolation	-

This entry is from the Service&Support portal of Siemens AG,
Siemens Industry Online Support.

Properties	Basic (BA)	Standard (ST)	High Feature (HF)	High Speed (HS)
Add-on functions	No	No	<ul style="list-style-type: none">- Pulse width modulation- Integrated counting with DI- Scalable measuring range- Scaling of the measured values- Measuring range adjustment	<ul style="list-style-type: none">- Oversampling for inputs and outputs

¹⁾ This is valid only for configuration with PROFIBUS GSD files.