

OFFICIAL PRODUCT DATA

Data Sheet

6DD1640-0AH0

PRODUCT DESCRIPTION

SIMATIC TDC SM500 Signal Module

Siemens SM500 combines digital, analog and encoder channels for coordinated signal acquisition and output in SIMATIC TDC systems.

01

VERIFIED PRODUCT IDENTITY

Manufacturer	Siemens
Article number	6DD1640-0AH0
Product description	SIMATIC TDC SM500 Signal Module

02

DOCUMENT BASIS

Technical values are transcribed from the Siemens official Data Sheet for article 6DD1640-0AH0. Values apply to this exact article number unless the source states a family-level condition.

03

TECHNICAL DATA

Product designation	SM500
Digital inputs	16
Digital input current	3 mA typical at signal 1
Digital outputs	16
Digital output current	50 mA rated at signal 1
Analog inputs	8
Analog outputs	8
Incremental encoder inputs	4
Absolute encoder inputs	4
Status indicators	6 LEDs
Input conversion resolution	12 bit maximum
Output conversion resolution	12 bit maximum

04

DOCUMENTED FUNCTIONS

- Digital process signal acquisition
- Digital command signal output
- Analog measurement input processing
- Analog reference output generation
- Incremental and absolute encoder feedback acquisition