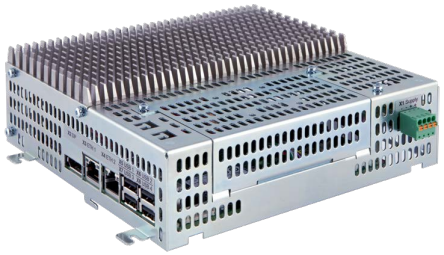
Panel Interface Modul
PIM 041



The Panel Interface Module (PIM) is an attachable CPU for SIGMATEK touch panels (TP). This module operates with a high-performance Intel Celeron dual-core processor.
The available interfaces are used, among other things, to forward process data. A generous M.2 hard drive serves as the storage medium for the operating system, application and application data.
In combination with a SIGMATEK TP, the two components form a multi-touch operating panel for visualizing, operating and monitoring automated processes. The SIGMATEK TPs are available in various models and a can be mounted or exchanged in the field with minimal effort.

Performance Data

Processor	Intel® Celeron® J4005
Processor cores	2
Processor clock	2.0-2.7 GHz
Internal cache	4 Mbytes
Internal program and data memory (RAM)	2-Gbyte DDR4 (SODIMM)
Graphics	Intel® UHD Graphics 600
Hard drive	64-Gbyte SATA M.2 SSD
Interfaces	4x USB 2.0, Type A 1x DisplayPort V1.2a (max. 1920 x 1200 Pixel at 60 Hz) 2x Ethernet (Gbit) 1x Panel Interface Connector (for connecting a SIGMATEK TP)
Internal interfaces (via Panel Interface Connector)	USB 3.1 (for touch and front USB, if available on the TP)
Status LEDs	no
Real-time clock	yes
Cooling	passive (fanless)

Electrical Requirements

Supply voltage	+24 V DC ±20 % (SELV/PELV) UL: Class 2 or LVLC	
Current consumption of the voltage supply (+24 V) without TP	typically 600 mA (with no external devices connected)	maximum 1100 mA (with external devices connected)
Current consumption of the voltage supply (+24 V) with TP	For the total current consumption, the current consumption of this PIM must be added to that of the TP used. The current consumption specifications for the TP used can be found in the module-specific operating manual	
Inrush current with 24 V/10 A fixed voltage supply	maximum 2.5 A (for 2 ms, load-dependent)	
Inrush current without current-limiting supply	maximum 3.3 A (for 6 µs, load-dependent)	

Environmental Conditions

Storage temperature	-10 ... +70 °C	
Environmental temperature	0 ... +50 °C	
Humidity	10-95 %, non-condensing	
Installation altitude above sea level	0-2000 m without derating > 2000 m up to a maximum of 5000 m with derating of the maximum environmental temperature by 0.5 °C per 100 m	
Operating conditions	pollution degree 2	
EMC resistance	in accordance with EN 61000-6-2 (industrial area)	
EMC noise emission	in accordance with EN 61000-6-4 (industrial area)	
Vibration resistance	EN 60068-2-6	5-200 Hz: amplitude 3.5 mm transition frequency: 8.42454 Hz acceleration: 1 g duration: 10 cycles cycle: 1 octave/minute
Shock resistance	EN 60068-2-27	15 g (147.15 m/s²)
Protection type	EN 60529 protection through housing	cover: IP20 (not UL-listed)

Article Number and Miscellaneous

Article number	01-232-041
Operating system	Salamander
Approvals	CE

Mechanical Dimensions

Dimensions	191 x 171.50 x 61 mm (W x H x D)
Material	housing: sheet steel plate color: blue chromated
Weight	1.2 kg

Notes