

Build-in Touch Terminal ETT 1844



The ETT 1844 is an intelligent panel for visualizing, operating and monitoring automated processes.

A capacitive touch screen serves as the input medium for process data and parameters. The output is shown on a 18.5" TFT color display.

Via the high-performance processor, complex HTML5 applications can be displayed without problems.

The available interfaces can be used to exchange process data or configure the multi-touch terminal. An M.2 SSD serves as the storage medium for the operating system, application and application data.

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)	4-Gbyte DDR4 (SODIMM)
Graphics	Intel® UHD Graphics 600
Hard drive	128-Gbyte SATA M.2 SSD
Interfaces	4x USB 2.0 (Type A) 1x DisplayPort output V1.2a (max. 1920 x 1200 px at 60 Hz) 2x Ethernet (Gbit)
Internal interfaces	1x Panel Interface Connector
Signal generator	no
Display Resolution	18.5" TFT color display WXGA 1366 x 768 pixels

Operating panel	touch screen (projective capacitive)
Status LEDs	1x red, 1x green
Real-time clock	yes
Cooling	passive (fanless)

Electrical Requirements

Supply voltage	+18-30 V DC (SELV/PELV), typically +24 V DC UL: Class 2 or LVLC	
Current consumption of (+24 V) power supply	typically 1200 mA (without externally connected devices)	maximum 1700 mA (with external devices connected)
Inrush current with 24 V/10 A fixed voltage supply	maximum 2.2 A (for 1.8 ms, load-dependent)	
Inrush current without current limiting supply	maximum 5.2 A (for 6 µs, load-dependent)	

Terminal

Dimensions	464 x 285 x 89 mm (W x H x D)
Material	front plate: 1.8 mm glass (touch screen) in black anodized aluminum frame housing: sheet steel heat sink: anodized aluminum
Weight	4.9 kg

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 with derating of the maximum environment temperature by 0.5 °C per 100 m	
Operating conditions	pollution degree 2	
EMC resistance	EN 61000-6-2 (industrial area)	
EMC noise generation	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 protected through the housing	front: IP65 cover: IP20

Display		
Type	18.5" TN color display	
Resolution	WXGA 1366 x 768 pixles	
Color depth	18 Bit RGB + Hi-FRC	
LCD mode	normally white	
LCD Polarizer	transmissive	
Pixel size	0.3 x 0.3 mm	
Active surface	409.8 x 230.4 mm	
Backlighting	LED	
Contrast ratio	typically 1000:1	
Brightness	typically 450 cd/m²	
Angle CR ≥ 10	left right: 85° / top down: 80°	
Life span	by compliance with the ambient conditions, the brightness of the display sinks after 50,000 operating hours to 50 % of the original brightness	

Article Number and Miscellaneous		
Article number	01-230-1844	
Operating system	Gecko	
Default IP address	automatic (DHCP)	
Intel Ethernet (X3)	automatic (DHCP)	
Realtek Ethernet (X4)	automatic (DHCP)	
Approvals	CE; the ETT 1844 consists of a TP 1861 (cULus (E247993)) and a PIM 041 (designed according to UL)	

Notes