EMBEDDED COMPUTER PLATFORMS





YOUR SPECIALIST FOR PANEL PC'S, TOUCH SOLUTIONS AND INDUSTRIAL PC PLATFORMS



s&t embedded GmbH offers a wide Portfolio of Embedded Systems that are deployed in the most varied industrial sectors such as:

- Automation
- Medical Technology
- Railway Engineering
- Energy Management
- Security
- Multimedia

Our Box PC solutions and Rack solutions offer standard solutions for all applications in the industrial environment.

The HMI systems from s&t embedded are available as Panel-PC or Industry Panels with the latest touch technologies, fulfill the requirements of the protection classes IP40 to IP67 and are thereby perfectly suited to deployment in industrial environmental conditions. A fanless housing design ensures dependable 24 hour operation.

The Engineering Team at s&t embedded offers the full range of services required for the development of customer specific embedded systems and products, as well as for accompanying customers competently and consistently throughout long term partnerships.

S&T EMBEDDED GMBH YOUR SPECIALIST FOR CUSTOM SPECIFIC SOLUTIONS



s&t embedded GmbH sees itself as a solution provider for embedded computing. For our customers we develop and manufacture in the fields of hardware, software, mechanic and system integration. We accompany the customer from the conception and pre-development through implementation and product qualification process up to product support for Touch Panel, Embedded Boards, Embedded PC's or Panel PC's. Focus is on the following markets: industrial automation, energy, measurement engineering, industrial image data processing, Railway and Medical.

Our team has wideband experience with dedicated contact persons. Customers can always see the actual status of the project, because the process is always transparent and documented.

As a solution provider, the company performs the following services:

- Conceptual design and requirement specifications
- System Engineering
- Hardware Engineering
- Software Engineering
- Mechanic Design Engineering
- Consulting/Coaching
- Project Management
- Lifecycle Management

Development, Series Production, Lifecycle Management - all from a single source!

FLATMAN

Overview





FLATMAN ECO LINE

FLATMAN PRO LINE

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PROCESSOR SYSTEM	CPU BIOS	Intel® BayTrail Celeron Quad Core J1900 AMI uEFI BIOS	Intel® Haswell ULT i5-4300U AMI uEFI BIOS
MEMORY RAM	Standard	4 GB DDR3 SO-DIMM	4 GB DDR3 SO-DIMM
I/O STANDARD		2xGbE (1x Intel®) LAN, (1x Realtek) LAN, 1x HDMI, 1x VGA, 1x USB 3.0, 2x USB 2.0	3xGbE (3x Intel®) LAN, 2x DP, 4x USB 3.0
POWER SUPPLY		16-30 V DC Input via Phoe	enix Connector PSC 1,5/3-F
OPERATING SYSTEMS		Windows7 incl Embedded, Windows8.1 incl Embedded, Linux	Windows7 incl Embedded, Windows8.1 incl Embedded, Linux
MECHANICAL	Mounting Options	Full metal housing (VESA 75/75 or 100/100) / built-in-mounting (from rear via brackets) Open Frame	
DISPLAY	Screen Diagonals Format 4:3 Format 16:9 LED lifetime Resolution 800 x 600, SVGA Resolution 1024 x 768, XGA Resolution 1366 x 768, HD Resolution 1280 x 1024, SXGA Resolution 1920 x 1080, Full HD	10,4"/12,1"/15.0"/15,6"/17,0"/18,5"/19,0"/21,5"	
TOUCH OPTIONS	PCAP Resistive Protection glass	for all display sizes for all display sizes for all display sizes	
ENVIROMENTAL	Cooling Operating Temperature Protection Class Front Protection Class other sides Humidity EMC	Fanless passiv cooling 0°C - 50°C ambient IP 65 IP 20 10% - 90% @ 39°C, non condensing EN55022 class B	
CERTIFICATIONS		CE, cULus	
OPTIONS		Other ATOM CPUs on request 8 GB RAM CF/SD Card Adapter SD Card Memory 4 GB, 16 GB, 32 GB, 64 GB CF Card Memory on demand mSATA SSD 32 GB, 64 GB, 128 GB 2x COM (RS232, RS422, RS485) Audio with amplifier (2 x 3W) RFID WiFi	Other CPUs on request 8 GB RAM CF/SD Card Adapter SD Card Memory 4 GB, 16 GB, 32 GB, 64 GB CF Card Memory on demand mSATA SSD 32 GB, 64 GB, 128 GB 2x COM (RS232, RS422, RS485) Audio with amplifier (2 x 3W) RFID WiFi

BOX PC'S

Overview









DIMENSIONS (H x W x D)	180 x 134 x 68 mm (including cooling element)	180 x 134 x 50 mm	200 x 119 x 30 mm	200 x 119 x 30 mm
COLOR	RAL 7021 powder- coated	RAL 7021 powder- coated		
PROCESSOR	Intel i5 (2x 1.9 GHz)	Intel BayTrail Celeron J1900 (4x 2.0 GHz)	Intel BayTrail Celeron J1900 (4x 2.0 GHz)	Intel 4th Generation Quad Core (4x 2.0 GHz)
MAIN MEMORY	4 GB SODIMM (optional: max. 8 GB)	4 GB SODIMM (optional: max. 8 GB)	4 GB SODIMM (optional: max. 8 GB)	4 GB SODIMM (optional: max. 16 GB)
STORAGE DEVICE	64 GB 512 GB mSATA (SSD)	64 GB 512 GB mSATA (SSD)	64 GB 512 GB mSATA (SSD)	64 GB 512 GB mSATA (SSD)
I/O STANDARD	4x USB 3.0, 3x GbE, 2x DP, 2x COM (RS232, RS422, RS485 all configurable via BIOS), 3x Intel LAN	4x USB 2.0, 1x USB 3.0, 2x GbE, 1x HDMI, 1x VGA, 2x COM (RS232, RS422, RS485 all configurable via BIOS)	5x USB 2.0, 3x USB 3.0, 2x GbE, 1x HDMI, 1x VGA, 2x COM (RS232, RS422, RS485 all configurable via BIOS)	4x USB 3.0, 2x GbE, 1x HDMI, 1x VGA, 1x DP, 2x COM (RS232, RS422, RS485 all configurable via BIOS)
COOLING	fanless passiv cooling	fanless passiv cooling	fanless passiv cooling	CPU fan with Smart Fan Function, System Fan Speed Control
SUPPLY VOLTAGE	24 V DC (16-30 V DC); Phoenix Connector PSC 1,5/3-F	24 V DC (16-30 V DC); Phoenix Connector PSC 1,5/3-F	24 V DC (12-19 V DC); JAE Plug Connector- Connector PSC 1,5/3-F	24 V DC (12-19 V DC); JAE Plug Connector- Connector PSC 1,5/3-F
OPERATING TEMPERATURE	0 - 50°C	0 - 50°C	0 - 45°C	0 - 45°C
OS SUPPORT	optional WIN7, WIN8, Linux	optional WIN7, WIN8, Linux	optional WIN7, WIN8, Linux	optional WIN7, WIN8, Linux
MOUNTING	via top hat rail adapter	via top hat rail adapter		
CERTIFICATIONS	CE	CE	CE	CE
WEIGHT	ca. 1,3 kg	ca. 1 kg	ca. 1 kg	ca. 1 kg

19" RACK

Overview







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2U-BOX

	10-вох	20-BOX	40-BOX
MAINBOARD	Industrial Mainboard mITX; Q87	Industrial Mainboard uATX; Q87	Industrial Mainboard ATX; Q87
PROCESSOR	Socket LGA1150, max. 95W TDP up to Intel® Core™ i7 series - 4xxx processor series	Socket LGA1150, max. 95W TDP up to Intel® Core™ i7 series - 4xxx processor series	Socket LGA1150, max. 95W TDP up to Intel® Core™ i7 series - 4xxx processor series
MEMORY	2x SODIMM DDR3-1600, non ECC max. 16 GB	4x DIMM DDR3-1600, non ECC max. 32 GB	4x DIMM DDR3-1600, non ECC max. 32 GB
DRIVES	2x 3.5" HDD intern 1x Slim DVD-Rom	2x 5.25" Drive bay 1x 3.5" Drive bay internal: 2x 2.5" Drive bay	3x 5.25" Drive bay 1x 3.5" Drive bay internal: 3x 3.5" Drive bay
INTERFACES	Front: 2x USB Rear: PS/2 Mouse/Keyboard 6x USB 2.0, 2x DP 1.2, DVI-I, COM1, 2x USB 3.0, 2x LAN, Audio Intern: 5x SATA III 600, LVDS, Buzzer, COM2	Front: 2x USB Rear: PS/2 Mouse/Keyboard 6x USB 2.0, 2x DP 1.2, DVI-I, COM1, 2x USB3.0, 2x LAN, Audio Intern: 6x SATA III 600, Buzzer, COM2	Front: 2x USB Rear: PS/2 Mouse/Keyboard 6x USB 2.0, 2x DP 1.2, DVI-I, COM1, 2x USB 3.0, 2x LAN, Audio Intern: 6x SATA III 600, Buzzer, COM2
EXPANSIONS	1x Mini PCI Express, 1x mSATA, 2x USB 2.0, 2x USB 3.0, 1x USB Stick	1x PCle x16 (Gen3), 1x PCle x16 (Gen2), 1x PCle x8, 1x PCl 1x mSATA, 2x USB 2.0, 2x USB 3.0, 1x USB Stick	1x PCle x16 (Gen3), 1x PCle x16 (Gen2), 1x PCle x8, 4x PCl 1x mSATA, 2x USB 2.0, 2x USB 3.0, 1x USB Stick
COOLING	Box: 1x 97 mm Fan Prozessor: Heatsink mit Lüfter	Box: Middle: 1x 80 mm Fan, Rear: 2x 40 mm Fan option Prozessor: Heatsink mit Lüfter	Box: Front: 1x 120 mm Fan, Rear: 2x 80 mm Fan option Prozessor: Heatsink mit Lüfter

	COM1, 2x USB 3.0, 2x LAN, Audio Intern: 5x SATA III 600, LVDS, Buzzer, COM2	COM1, 2x USB3.0, 2x LAN, Audio Intern: 6x SATA III 600, Buzzer, COM2	COM1, 2x USB 3.0, 2x LAN, Audio Intern: 6x SATA III 600, Buzzer, COM2
EXPANSIONS	1x Mini PCI Express, 1x mSATA, 2x USB 2.0, 2x USB 3.0, 1x USB Stick	1x PCle x16 (Gen3), 1x PCle x16 (Gen2), 1x PCle x8, 1x PCl 1x mSATA, 2x USB 2.0, 2x USB 3.0, 1x USB Stick	1x PCle x16 (Gen3), 1x PCle x16 (Gen2), 1x PCle x8, 4x PCl 1x mSATA, 2x USB 2.0, 2x USB 3.0, 1x USB Stick
COOLING	Box: 1x 97 mm Fan Prozessor: Heatsink mit Lüfter	Box: Middle: 1x 80 mm Fan, Rear: 2x 40 mm Fan option Prozessor: Heatsink mit Lüfter	Box: Front: 1x 120 mm Fan, Rear: 2x 80 mm Fan option Prozessor: Heatsink mit Lüfter
BUTTONS	Power on/off, System reset	Power on/off, System reset	Power on/off, System reset
INDICATORS	Power-LED, 2x LAN, HDD-LED	Power-LED, 2x LAN, HDD-LED	Power-LED, 2x LAN, HDD-LED
POWER SUPPLY	250W / ATX-Voltages	300W / ATX-Voltages	500W / ATX-Voltages
POWER INPUT	230 V AC (90 264 V AC) optional 24 V DC (20 36 V DC)	230 V AC (90 264 V AC) optional 24 V DC (20 36 V DC)	230 V AC (90 264 V AC) optional 24 V DC (20 36 V DC)
TEMPERATURE (OPERATING):	0°C - 55°C	0°C - 55°C	0°C - 55°C
OPERATING SYSTEM	optional WIN7, WIN8, Linux	optional WIN7, WIN8, Linux	optional WIN7, WIN8, Linux
MOUNTING	optional 19" slide rails	optional 19" slide rails	optional 19" slide rails
CERTIFICATIONS	CE	CE	CE
WEIGHT	about 9 kg	about 12 kg	about 13 kg
"DIMENSIONS (W X D X H)"	482,6 x 381 x 44,4 mm	483 x 457 x 88,8 mm	483 x 445 x 176 mm
FINISHING	Front Panel: Black	Front Panel: Black	Front Panel: Black

MONITORS

Overview



FLATMAN MONITOR

CONTROLLER BOARD		Embedded Flatpanel Controller
I/O STANDARD		1x DP, 1x DVI-I (DVI+VGA), USB-B or RS232 Touch Controller Support
POWER SUPPLY		16-30 V DC Input via Phoenix Connector PSC 1,5/3-F
OPERATING SYSTEMS		Touch Controller supports Windows 7 incl Embedded, Windows 8.1 incl Embedded, Linux
MECHANICAL	Mounting Options	Fill metal housing (VESA 75/75 or 100/100) / built-in-mounting (fastening from rear via brackets) Open Frame
DISPLAY	Screen Diagonals Format 4:3 Format 16:9 LED lifetime Resolution 800 x 600, SVGA Resolution 1024 x 768, XGA Resolution 1366 x 768, HD Resolution 1280 x1024, SXGA Resolution 1920 x 1080, Full HD	10,4"/12,1"/15,0"/15,6"/17,0"/18,5"/19,0"/21,5" 10,4"/12,1"/15,0"/17,0"/19,0" 15,6"/18,5"/21,5" > 50.000 h for all sizes 10,4"/12,1" 12,1"/15,0" 15,6"/18,5" 17,0"/19,0" 15,6"/21,5"
TOUCH OPTIONS	PCAP Resistive Protection glass	for all display sizes for all display sizes for all display sizes
ENVIROMENTAL	Cooling Operating Temperature Protection Class Front Protection Class other sides Humidity EMC	Fanless passiv cooling 0°C - 50°C ambient IP 65 IP 44 10% - 90% @ 39°C, non condensing EN55022 class B
CERTIFICATIONS		CE, cULus
OPTIONS		Driver for other OS on request



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