



Industrial Automation - Products & Configurations

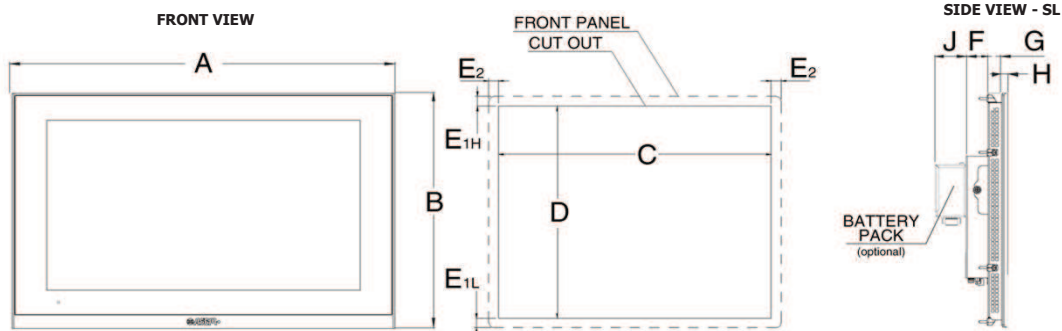
| HT2200-TFM/SL BASIC SYSTEM fanless - with mSATA SSD predisposition | | | | POWER [W] | |
|---|---|----|----|---|----|
| Basic Configuration | LCD TFT 15,6" • Touch-Screen Multitouch • Intel® Celeron® quad core J1900 2,00 GHz • 2GB RAM • Aluminum and glass TrueFlat front panel • without possibility to add communication ports • isolated 24V DC power supply • 12 months warranty | | | 33 | |
| HT2200-TFM/S0 BASIC SYSTEM fanless - with mSATA SSD predisposition | | | | POWER [W] | |
| Basic Configuration | LCD TFT 15,6" • Touch-Screen Multitouch • Intel® Celeron® quad core J1900 2,00 GHz • 2GB RAM • Aluminum and glass TrueFlat front panel • with possibility to add communication ports • isolated 24V DC power supply • 1 PCI slot • 12 months warranty | | | 33 | |
| HT2200-TFM/S0 BASIC SYSTEM fanless - with 2,5" SSD/HDD predisposition | | | | POWER [W] | |
| Basic Configuration | LCD TFT 15,6" • Touch-Screen Multitouch • Intel® Celeron® quad core J1900 2,00 GHz • 2GB RAM • Aluminum and glass TrueFlat front panel • with possibility to add communication ports • isolated 24V DC power supply • 12 months warranty | | | 33 | |
| HT2200-TFM/S1 BASIC SYSTEM fanless - with mSATA SSD predisposition | | | | POWER [W] | |
| Basic configuration | LCD TFT 15,6" • Touch-Screen Multitouch • Intel® Celeron® quad core J1900 2,00 GHz • 2GB RAM • Aluminum and glass TrueFlat front panel • with possibility to add communication ports • isolated 24V DC power supply • 1 PCI slot • 12 months warranty | | | 37 | |
| HT2200-TFM/S1 BASIC SYSTEM fanless - with 2,5" SSD/HDD predisposition | | | | POWER [W] | |
| Basic configuration | LCD TFT 15,6" • Touch-Screen Multitouch • Intel® Celeron® quad core J1900 2,00 GHz • 2GB RAM • Aluminum and glass TrueFlat front panel • with possibility to add communication ports • isolated 24V DC power supply • 1 PCI slot • 12 months warranty | | | 37 | |
| PROCESSOR | SL | S0 | S1 | | |
| | • | • | • | Intel® Celeron® J1900 • 2,00 GHz (2,42 GHz Burst), 2MB L2 cache • 4 cores, 4 threads • Soldered on-board | |
| DISPLAY & TOUCH-SCREEN | • | • | • | 15,6" W LCD TFT 16:9 • 1366x768 (HD), 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ): 85°:85°/80°:80° | |
| | • | • | • | 15,6" W Touch-Screen • P-CAP projected capacitive multitouch, 4 fingers • Controller on module | |
| | • | • | • | 18,5" W LCD TFT 16:9 • 1366x768 (HD), 16M colors • LED backlight, 300 cd/m2 • Viewing angle L:R/U:L (typ): 75°:75°/70°:70° | |
| | • | • | • | 18,5" W Touch-Screen • P-CAP projected capacitive multitouch, 4 fingers • Controller on module | |
| | • | • | • | 21,5" LCD TFT Wide 16:9 • 1920x1080 (FHD), 16M colors • LED backlight, 300 cd/m2 • Viewing angle L:R/U:L (typ): 89°:89°/89°:89° | |
| | • | • | • | 21,5" W Touch-Screen • P-CAP projected capacitive multitouch, 4 fingers • Controller on module | |
| RAM MEMORY | • | • | • | 1 GB • 1 module SODIMM DDR3-1600 | |
| | • | • | • | 2 GB • 1 module SODIMM DDR3-1600 | |
| | • | • | • | 4 GB • 1 module SODIMM DDR3-1600 | |
| | • | • | • | 8 GB • 1 module SODIMM DDR3-1600 | |
| INTERNAL PSU | • | • | • | Without UPS (uninterruptible power supply) | |
| | • | • | • | With UPS (uninterruptible power supply) • integrated in power supply section • batteries kit not included > note 1 | |
| COMMUNICATION PORTS | • | • | • | without possibility to add communication ports, below described | |
| | • | • | • | with possibility to add communication ports, below described | |
| EXPANSION SLOTS | • | • | • | No expansion slots | |
| | • | • | • | 1 x PCI half size • on riser card • expansion board with max consumption 3W | |
| | • | • | • | 1 x PCIe x1 format (Generation 1 2.5Gbit/s) half size • on riser card • expansion board with max consumption 3W | |
| OPTIONS | | | | POWER [W] | |
| SSD mSATA > note 2 | • | • | • | SSD mSATA (U110/X110), SATA 3, 6Gb/s (Solid State Disk), MLC | 2 |
| SSD 2,5" > note 2 | • | • | • | SSD 2,5" SATA installation kit (SSD not included) | - |
| | • | • | • | SSD 2,5" SATA 2, 3Gb/s (Solid State Disk), MLC | 5 |
| HDD 2,5" > note 2 | • | • | • | HDD 2,5" SATA installation kit (HDD not included) • with shock absorber | - |
| | • | • | • | HDD 2,5" SATA | 6 |
| CFAST | • | • | • | CFast SATA | 1 |
| COMMUNICATION PORTS | • | • | • | 1 x RS232/422/485 serial port (DB15M) • 1 x USB 2.0 port > note 3 | 1 |
| | • | • | • | 1 x RS232/422/485 optoisolated serial port (DB15M) • 1 x USB 2.0 port > note 3 | 1 |
| | • | • | • | 2 x RS232 serial ports (DB9M) > note 3 | 2 |
| | • | • | • | 2 x USB 2.0 ports > note 3 | 0 |
| | • | • | • | 1 x Ethernet 10/100/1000Mbps, Intel® I210 | 1 |
| POWER SUPPLY | • | • | • | Kit for ATX mode power supply functionality including on board button, internal cable and connector for remote command. | 0 |
| UPS BATTERIES KIT | • | • | • | Batteries kit for rear systems mounting • cable included | 15 |
| | • | • | • | Batteries kit for detached mounting (wall mount) • 100cm cable included | 15 |
| WARRANTY EXTENSION | • | • | • | Warranty extension to 18 months on basic system and its variants | |
| | • | • | • | Warranty extension to 24 months on basic system and its variants | |
| | • | • | • | Warranty extension to 36 months on basic system and its variants | |

| NOTES | |
|---|---|
| For power consumption calculation we recommend to read the tips on pg. 4. The power values does not include the absorbed power of USB devices connected to the ports. | |
| 1: | UPS module is supported by Microsoft Win32/64 operating systems |
| 2: | mSATA SSD and 2,5" SSD/HDD devices cannot be installed together |
| 3: | Communication ports signed by note 3 cannot be installed together |



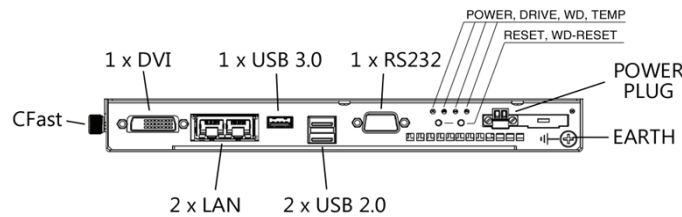
| TECHNICAL SPECIFICATIONS | |
|-------------------------------|--|
| Case | Panel mount |
| Overall dimensions & weight | See details on the related section |
| Front panel | Aluminum and tempered glass TrueFlat • ASEM logo serigraph printed |
| Touchscreen | Projective capacitive multitouch, 4 fingers • overlaminated with OCA (Optical Clear Adhesive) • Controller on module |
| Frontal protection | IP66 |
| Power supply | 24VDC isolated • Input voltage: 18÷32V DC • ATX mode push button (optional) |
| UPS (optional) | 12V DC UPS (Uninterruptible Power Supply) battery backup system Batteries module (optional): Pb, 12V/13A max, 2500mAh • Charge time 3h@25°C • Discharge time 15'@5A and 25°C • Lifetime 10years@25°C |
| Motherboard | "All-In-One" type • ASEM 954 |
| Watch dog | Time programmable |
| Intel platform | Processor Intel® Celeron® J1900 • 2,00 GHz (2,42 GHz Burst), 2MB L2 cache • 4 cores, 4 threads • Soldered on-board |
| Operating System | O.S. certified by ASEM Microsoft Windows 8.1 Industry Pro • Microsoft Windows 7 Pro/Ultimate 32/64bit • Microsoft Windows Embedded Standard 7P 32/64 bit |
| | O.S. not supported by Intel platform Other operating systems, such as VxWorks, QNX, etc., have not been certified by ASEM but they are reasonably supported by the Intel platform after verification of compatibility Microsoft Windows XP / 2000 / 98 / NT • Microsoft Windows CE 5 / 6 |
| Video controller | Intel® HD Graphics integrated into Intel® Celeron™ microprocessor • 688MHz • LVDS 8bit/color digital interface |
| Video RAM (shared) | Dynamic Video Memory Technology • Memory quantity is automatically selected by operating system (max 1720 MB) |
| System memory | DDR3-1066 type • 1 SODIMM module • min 1GB • max 8GB |
| Mass storage interfaces | SL 1 x mSATA 2, 3Gb/s |
| | S0/S1 1 x SATA 2, 3Gb/s or 1 x mSATA 2, 3Gb/s |
| CFast slot | 1 x slot CFast (bootable) external access |
| Bus expansions slots | on riser card (S1) 1 x PCI or 1 x PCIe x1 • half size boards with 3W max consumption • alternative to each other |
| Rear access interfaces | 2 x Ethernet 10/100/1000 Mbps (RJ45), Intel® I210 • 1 x USB 3.0 (Type A) • 2 x USB 2.0 (Type A) • 1 x DVI-I Single Link (max resolution: DVI-D/VGA 1920x1080 FullHD) |
| Rear access serial interfaces | 1 x RS-232 (DB9M) |
| Environmental specifications | Operating temperature: 0° ÷ +50°C, 0°C ÷ +45°C with 24x7 HDD, +5°C ÷ +45°C with standard HDD • Storage temperature: -20° ÷ +60°C • Humidity: 80% (non-condensing) |
| Approvals | CE (EN 55022, EN 61000-3-2/3, EN 55024, EN 60950-1) • cULus LISTED (UL508) |
| Standard warranty | 12 months • Warranty management by ASEM headquarters |

DIMENSIONS (mm)

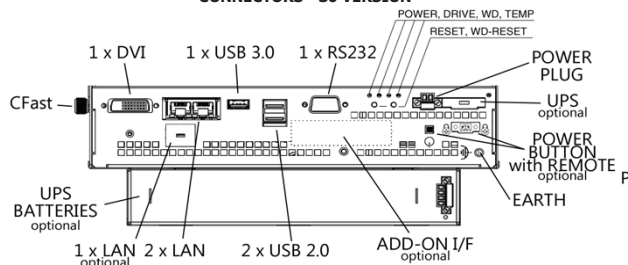


| LCD TFT | A | B | C | D | E _{1L} :E _{1H} /E ₂ | F (SL/S0/S1) | G | H | J | Weight (kg) |
|---------|-------|-------|-----|-----|--|--------------|----|---|------|-------------|
| 15,6" | 433 | 280,5 | 410 | 255 | 15:10,5/11,5 | 29 / 56 / 77 | 36 | 6 | 41,8 | tbd |
| 18,5" | 503 | 320,5 | 480 | 300 | 10:10,5/11,5 | 29 / 56 / 77 | 35 | 6 | 41,8 | tbd |
| 21,5" | 581,5 | 367,5 | 559 | 347 | 10:10,5/11,5 | 29 / 56 / 77 | 35 | 8 | 41,8 | tbd |

CONNECTORS - SL VERSION



CONNECTORS - S0 VERSION



CONNECTORS - S1 VERSION

