
Technical specifications

Processor

| Model | Processor | Clock Speed |
|--------------|---|-------------|
| T1910/T1910C | Intel SL Enhanced 486 SX (3.3 volt technology) | 33 MHz, |

System memory

| Memory type | Amount | Access speed |
|------------------|-------------------------|-------------------|
| Standard RAM | 4096 KBytes | (100 nanoseconds) |
| Memory expansion | up to 16,384 KBytes | (100 nanoseconds) |
| BIOS Flash EPROM | 128 KByte | (150 nanoseconds) |
| Video RAM | 512 KByte | (80 nanoseconds) |
| Cache memory | 8 KByte on the CPU chip | |

Memory size

| | |
|-----------------------|-------------------|
| Standard Memory | 4 MB |
| Technology | 3.3 volt |
| No of expansion slots | 1 |
| Expansion card sizes | 4 MB, 8 MB, 16 MB |

Memory map

| Address | Size | Usage |
|----------------------|-------|--------------------------|
| 00000000 - 0009FFFF | 640 | System working memory |
| 000A0000 - 000BFFFF | 128 | Video RAM |
| 000C0000 - 000C7FFF | 32 | VGA BIOS ROM |
| 000C8000 - 000CFFFF | 32 | Backup RAM (Resume Mode) |
| 000F0000 - 000FFFFF | 64 | System BIOS ROM |
| 00100000 - 003FFFFFF | 3456 | System extended memory |
| 00400000 - 013FFFFFF | 16384 | Memory card 1 |
| FFFF0000 - FFFFFFFF | 64 | Shadow BIOS ROM |

Floppy disk drive

| Specification | High setting | Low setting |
|----------------------|---------------------|---------------------|
| Media supported* | 3.5 inch 2HD | 3.5 inch 2DD |
| Storage capacity | 1.44 MB | 720 KB |
| Rotation | 300 rpm | 300 rpm |
| Transfer rate | 500 Kbit per second | 250 Kbit per second |
| Bytes per sector | 512 | 512 |
| Sectors per track | 18 | 9 |

*Adjustment between diskette types is automatic.

Hard disk drive

| Specification | 120 MB | 200 MB |
|------------------------------|-------------------------|-------------------------|
| Formatted capacity | At least 120 MB | At least 200 MB |
| Data transfer rate to buffer | 6.5 - 8 MB/sec | 4.0 MB/sec |
| Data transfer rate to media | 18 MBits/sec | 31.6 MBits/sec |
| Average seek time | 17 ms | 12 ms |
| Track-to-track seek time | 5 ms | 3 ms |
| Drive rotation | 3,200 - 3,750 rpm | 4,000 rpm |
| No. of disks | 2 | 2 |
| No of read/write heads | 4 | 4 |
| Coding | 1-7 RLL | 1 - 7 RLL |
| Bytes per sector | 512 | 512 |
| Interleave | 1:1 | 1:1 |
| Interface | AT compatible task file | AT compatible task file |

Screens

| Specification | Monochrome Screen | Colour Screen |
|----------------------|--------------------------|----------------------|
| Screen type | Standard STN | Advanced STN |
| Number of dots | 640 x 480 | 640 x 480 |
| Dot pitch | 0.3 x 0.3 mm | 0.3 x 0.3 mm |
| Display area | 198 x 150 mm | 195 x 147mm |
| Diagonal | 9.5 inch | 9.5 inch |
| Contrast ratio | 17:1 (max.) | 18:1 |
| Grey scales/Colours | Up to 64 | Up to 256 |
| Line response time | 17 ms | 50 ms |
| Brightness | 70 cd/m ² | 60 cd/m ² |

| Graphics Adaptor | Video display/machine | Resolution | Number of colours |
|------------------------|-----------------------|----------------------|----------------------|
| | Internal VGA (T1910) | 640 x 480 | Up to 16 grey shades |
| Internal VGA (T1910) | 320 x 200 | Up to 64 grey shades | |
| Internal VGA (T1910CS) | 640 x 480 | Up to 16 colours | |
| Internal VGA (T1910CS) | 320 x 200 | Up to 256 colours | |
| External VGA (Both) | 640 x 480 | Up to 16 colours | |

| Graphics Accelerator | Features | |
|----------------------|-----------------------------|---------------------|
| | Built into graphics adaptor | Bit block transfers |
| | LineDraw abilities | |

| Physical Dimensions | T1910 | T1910CS |
|---------------------|---------------------|---------------------|
| | Size (W, D, H) | 299 x 215 x 51 mm |
| | 11.8" x 8.5" x 1.8" | 11.8" x 8.5" x 2.1" |
| Weight | 2.9 kg (6.4 lb) | 3.2 kg (7 lb) |

| Battery Types | Main | Back-up | RTC |
|----------------|------------------|------------------|------------------|
| | NiH ₂ | NiH ₂ | Vanadium Lithium |
| 12 V x 2200mAH | 1.2 V x 1100mAH | 3.0V x 50 AH | |

| Resume battery back-up | Main | Back-up | RTC |
|------------------------|--------|---------|--------------------|
| | 1 week | 8 hours | 1 month (RTC only) |

| Battery life | Model | T1910 | T1910CS |
|--------------|--------------|-------|---------|
| | Maximum Life | 5:00 | 3:30 |

| AC Adaptor | Model | T1910 | T1910CS |
|-------------------|---------------|--------------------------------|--------------------------------|
| | Input voltage | 100 - 240 v AC, self-adjusting | 100 - 240 v AC, self-adjusting |
| Frequency | 50 - 60 Hz | 50 - 60 Hz | |
| Output voltage | 18 V | 18 V | |
| Output current | 1.1 A | 1.7 A | |
| Power dissipation | 20 W | 30 W | |

Environmental Conditions

| | Operating | Non-Operating |
|-------------------------|-------------------------|-----------------------|
| Temperature | 5° C to 35° C | -20° C to 65° C |
| Thermal Gradient | 20° C/hour | 20° C/hour |
| Relative Humidity | 20% to 80% | 10% to 90% |
| | Non Condensing | Non Condensing |
| Altitude | -60 to 3,000 m * | -60 to 10,000 m |
| (relative to sea level) | (-200 to 10,000 feet) * | (-200 to 30,000 feet) |
| Shock | 10 G | 60 G |
| Vibration | 0.5 G | 1 G |

Certification

| | |
|---------------------|-------------|
| UL 478/1012 | USA |
| IEC 950 | Europe |
| NEMKO | Norway |
| DEMKO | Denmark |
| SEMKO | Sweden |
| SEV | Switzerland |
| SETI(EI) | Finland |
| VDE 0878 level B | Germany/ EC |
| VDE 0875 level B | Germany/ EC |
| FCC part 15 class B | USA |
| CSA 950/223 | Canada |
| DOC Class B | Canada |
| SAA | Australia |
| SASO | Middle East |

*Aeroplane cabin pressures simulate low altitudes, so flying higher causes no restrictions
