## BCM ADVANCED RESEARCH, INC.

IN620

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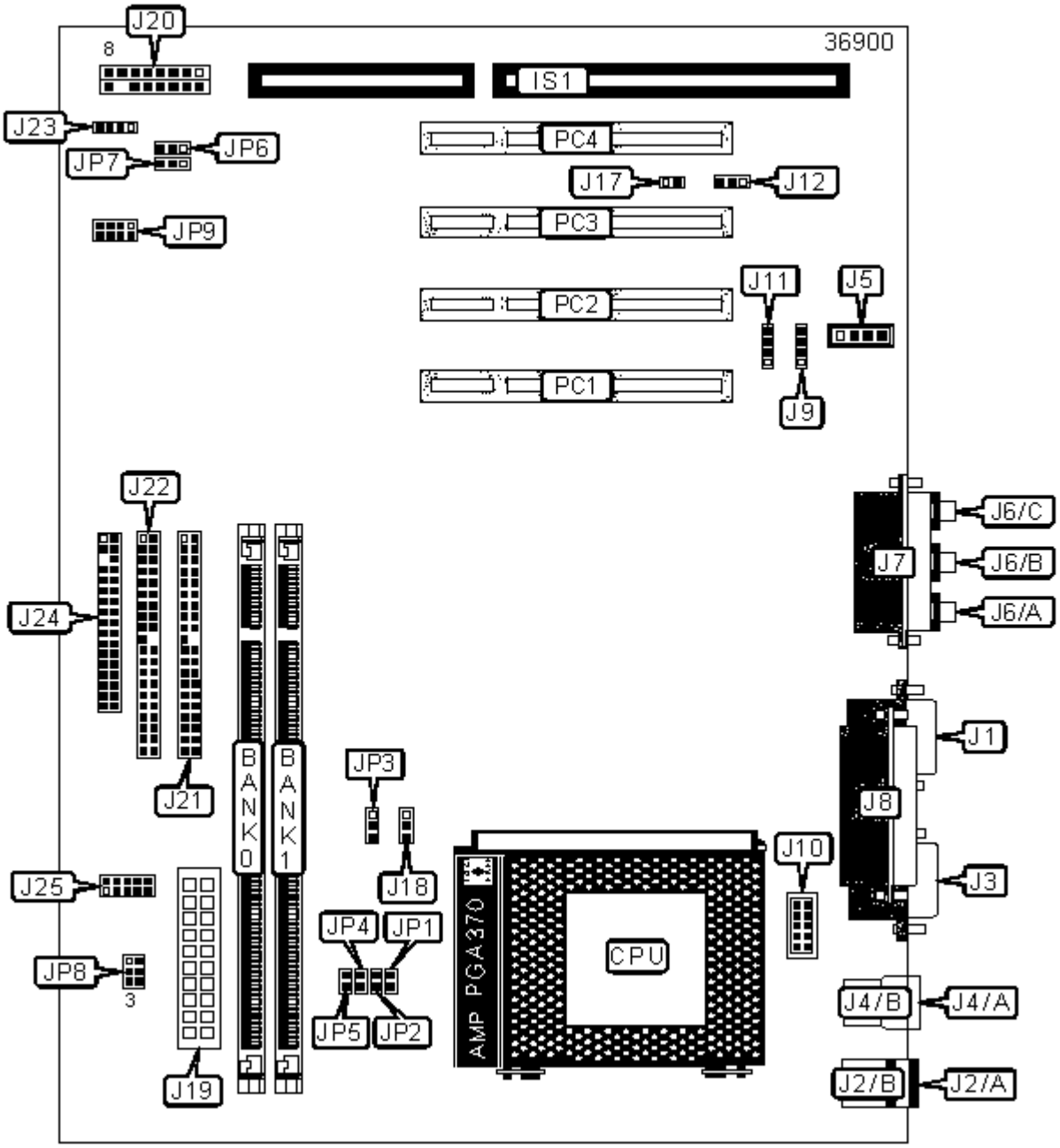
|---|---|
| **Device Type** | Mainboard |
| **Processor** | Celeron |
| **Processor Speed** | 300/333/366/400/433/466/500MHz |
| **Chip Set** | SiS |
| **Video Chip Set** | SiS |
| **Audio Chip Set** | ESS |
| **Maximum Onboard Memory** | 1GB (SDRAM supported) |
| **Maximum Video Memory** | Unidentified |
| **Maximum Audio Memory** | Unidentified |
| **Cache** | 0/128KB |
| **BIOS** | Award |
| **Dimensions** | 244mm x 211mm |
| **I/O Options** | 16-bit ISA slot, 32-bit PCI slots (4), ATX power connector, audio in - CD-ROM, auxiliary-in, floppy drive interface, front side USB interface, game/MIDI port, green PC connector, IDE interfaces (2), line in, line out, microphone in, modem connector, parallel port, PS/2 keyboard port, PS/2 mouse port, serial interface, serial port, USB ports (2), VGA port, Wake-on-LAN connector, Wake-on-modem connector |




| CONNECTIONS | | | |
|---|---|---|---|
| **Purpose** | **Location** | **Purpose** | **Location** |
| VGA port | J1 | Wake-on-modem connector | J17 |
| PS/2 keyboard port | J2/A | CPU fan power | J18 |
| PS/2 mouse port | J2/B | ATX power connector | J19 |
| Serial port 1 | J3 | IDE interface LED | J20/Pins 1 & 2 |
| USB port 1 | J4/A | Reset switch | J20/Pins 3 & 4 |
| USB port 2 | J4/B | Power LED | J20/Pins 9 & 10 |
| Audio in - CD-ROM | J5 | Power switch | J20/Pins 11 & 12 |

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|---|---|---|---|
| Line out | J6/A | Green PC switch | J20/Pins 13 & 14 |
| Line in | J6/B | IDE interface 2 | J21 |
| Microphone in | J6/C | IDE interface 1 | J22 |
| Game/MIDI port | J7 | Speaker | J23 |
| Parallel port | J8 | Floppy drive interface | J24 |
| Auxiliary-in | J9 | Front side USB interface | J25 |
| Serial interface 2 | J10 | 16-bit ISA slot | IS1 |
| Modem connector | J11 | 32-bit PCI slots | PC1 - PC4 |
| Wake-on-LAN connector | J12 | | |

| USER CONFIGURABLE SETTINGS | | | |
|---|---|---|---|
| **Function** | | **Label** | **Position** |
| | Onboard video enabled | JP3 | Open |
| | Onboard video disabled | JP3 | Closed |
| » | CMOS memory normal operation | JP6 | Open |
| | CMOS memory clear | JP6 | Closed |
| » | Factory configured - do not alter | JP7 | Unidentified |
| | Front USB selected | JP8 | Pins 1 & 2, 4 & 5 closed |
| | Back panel USB selected | JP8 | Pins 2 & 3, 5 & 6 closed |

| DIMM CONFIGURATION | | |
|---|---|---|
| **Size** | **Bank 0** | **Bank 1** |
| 8MB | (1) 1M x 64 | None |
| 16MB | (1) 1M x 64 | (1) 1M x 64 |
| 24MB | (1) 2M x 64 | (1) 1M x 64 |
| 32MB | (1) 2M x 64 | (1) 2M x 64 |
| 40MB | (1) 4M x 64 | (1) 1M x 64 |
| 48MB | (1) 4M x 64 | (1) 2M x 64 |

| | | |
|---|---|---|
| 64MB | (1) 4M x 64 | (1) 4M x 64 |
| 72MB | (1) 8M x 64 | (1) 1M x 64 |
| 80MB | (1) 8M x 64 | (1) 2M x 64 |
| 96MB | (1) 8M x 64 | (1) 4M x 64 |
| 128MB | (1) 8M x 64 | (1) 8M x 64 |
| 136MB | (1) 16M x 64 | (1) 1M x 64 |
| 144MB | (1) 16M x 64 | (1) 2M x 64 |
| 160MB | (1) 16M x 64 | (1) 4M x 64 |
| 192MB | (1) 16M x 64 | (1) 8M x 64 |
| 256MB | (1) 16M x 64 | (1) 16M x 64 |
| 264MB | (1) 32M x 64 | (1) 1M x 64 |
| 272MB | (1) 32M x 64 | (1) 2M x 64 |
| 288MB | (1) 32M x 64 | (1) 4M x 64 |
| 320MB | (1) 32M x 64 | (1) 8M x 64 |
| 384MB | (1) 32M x 64 | (1) 16M x 64 |
| 512MB | (1) 32M x 64 | (1) 32M x 64 |
| 520MB | (1) 64M x 64 | (1) 1M x 64 |
| 528MB | (1) 64M x 64 | (1) 2M x 64 |
| 544MB | (1) 64M x 64 | (1) 4M x 64 |
| 576MB | (1) 64M x 64 | (1) 8M x 64 |
| 640MB | (1) 64M x 64 | (1) 16M x 64 |
| 768MB | (1) 64M x 64 | (1) 32M x 64 |
| 1024MB | (1) 64M x 64 | (1) 64M x 64 |
| Note: Board supports SDRAM memory.<br>Note: If only 1 DIMM module is used, it must be installed in Bank 0. | | |

| CACHE CONFIGURATION |
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| Note: 128KB cache is located on Celeron 300A and greater CPUs. |

| CPU HOST FREQUENCY SELECTION | | | | | |
|---|---|---|---|---|---|
| **Host Speed** | **SDRAM Speed** | **JP1** | **JP2** | **JP4** | **JP5** |
| 66MHz | 66MHz | Closed | Closed | Closed | Open |
| 66MHz | 100MHz | Open | Closed | Closed | Closed |
| 100MHz | 100MHz | Closed | Closed | Open | Open |
| 100MHz | 66MHz | Open | Open | Closed | Closed |

| CPU MULTIPLIER SELECTION | | | | |
|---|---|---|---|---|
| **Multiplier** | **JP9/Pins 1 & 2** | **JP9/Pins 3 & 4** | **JP9/Pins 5 & 6** | **JP9/Pins 7 & 8** |
| 3.0x | Closed | Closed | Closed | Open |
| 3.5x | Closed | Closed | Open | Open |
| 4.0x | Closed | Open | Closed | Closed |
| 4.5x | Closed | Open | Open | Closed |
| 5.0x | Closed | Open | Closed | Open |
| 5.5x | Closed | Open | Open | Open |
| 6.0x | Open | Closed | Closed | Closed |
| 6.5x | Open | Closed | Open | Closed |
| 7.0x | Open | Closed | Closed | Open |
| 7.5x | Open | Closed | Open | Open |
| 8.0x | Open | Open | Closed | Closed |