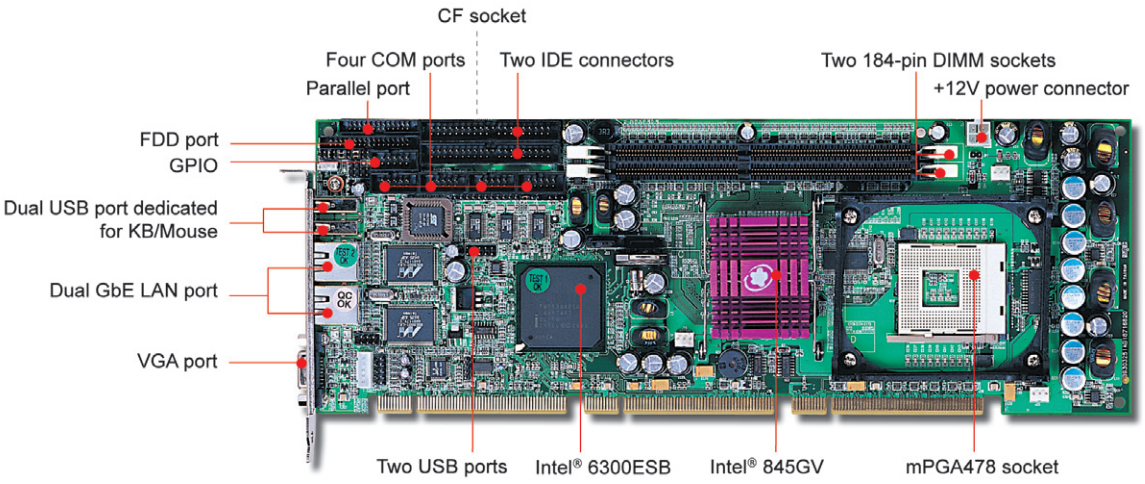
ROBO-8716VG2A

Intel® Pentium® 4 or Celeron® (D) processor based PICMG 1.2 (ePCI-X) SHB with DDR SDRAM, VGA, Dual Gigabit Ethernet, Audio and USB 2.0



FEATURES

- PICMG 1.2 SHB supports one PCI and one PCI-X (66MHz only); independent architecture of these two buses increase total bandwidth of expansion
- High quality and reliable design for wider range Intel® Pentium® 4/Celeron® (D) (0.13 micron & 90 nm process) processor support mission critical operation
- Support Mobile Intel® Pentium® 4-M processor for low power consumption application
- Dual on-board Gigabit Ethernet for network redundancy application
- Dual SATA port supports higher throughput storage deices
- Standard features for embedded system deployment like H/W monitoring, WDT, SSD and Wake-On-LAN

ORDERING GUIDE

Standard	**ROBO-8716VG2A** Intel® Pentium® 4 or Celeron® (D) processor based PICMG 1.2 (ePCI-X) SHB with DDR SDRAM, VGA, dual Gigabit Ethernet, audio and USB 2.0
Optional	**PA-M1AU** Multimedia kit for P4 SBC with audio and USB ports
	PS/2 Keyboard/Mouse Cable with Bracket PS/2 keyboard / mouse connectors on bracket

"*" Represents to be "over-clocking"

GENERAL

CPU	- CPU & Package: Intel® Pentium® 4/Celeron® (D) or Mobile Intel® Pentium® 4-M processor in the mPGA478 package - FSB: 800*/533/400MHz
Chipset	Intel® 845GV and 6300ESB
Memory	Up to 2GB DDR 400*/333/266 SDRAM on two 184-pin DIMM sockets
BIOS	Award BIOS
Display	- Intel GMCH integrated graphics controller - Dynamic 8 ~ 64MB shared display memory (Intel® DVMT) - Display resolution up to 2048x1536 @ 60Hz refresh - Superior 2D, 3D and video performance
Ethernet	- 10BASE-T/100BASE-TX/1000BASE-T Ethernet - IEEE 802.3u auto-negotiation - Dual RJ-45 connectors with two LED indicators
Audio	AC'97 2.2 Audio
SCSI	N/A
Expansion Interface	- Support one PCI bus and one PCI-X bus (66MHz only)
ISA Bus	N/A
EIDE	Support four EIDE devices with Ultra DMA 100/66/33
Solid State Disk	- One Type II CF socket - On Secondary EIDE channel - Bootable for no drives on primary channel
I/O	- Four serial (RS-232x3, selectable RS-232/422/485x1) & one IrDA 1.0 - Four USB 2.0 ports (Two ports on bracket for keyboard & Mouse) - Dual SATA port - 8 high driving GPIO (4 GPI, 4 GPO)
ACPI Function	- Modem-Ring-On and Wake-On-LAN
Hardware Monitoring	System monitor (fan, temperature, voltage)
Watchdog Timer	Programmable via software from 0.5 sec. to 254.5 min.
Power Requirement	Typical: +5V@2.2A; +12V(CPU)@6.5A; +12V (system)@0.1A; +3.3@0.4V
Mechanical	Dimension : 338.5(L) x 122(W) mm; 13.33"(L) x 4.8" (W) PCB: 8-layer
Environment	Operating Temperature: 0 to55°C Storage Temperature: -20 to 80°C Relative Humidity: 5% to 90%, non-condensing
Approval	CE, FCC Class A