ROBO-658

Intel® Pentium® III Celeron® processor based PICMG SBC with VGA, Ethernet and Ultra 160 SCSI

Two 168-pin DIMM sockets — Power management — VGA cache memory — Ultra 160 SCSI port — Two IDE connectors — Intel® 82559 10BASE-T/100BASE-TX Ethernet chip — FDD port — PIO port — ATX controller — COM1/RS-232 — LAN/RJ-45 — COM1/RS-232 — VGA port — PS/2 mouse connector — PS/2 K/B connector — FC-PGA 370 processor — Clock generator — Intel® i810e chipset — Adaptec AIC-7892 — PCI-to-ISA bridge — DOC socket
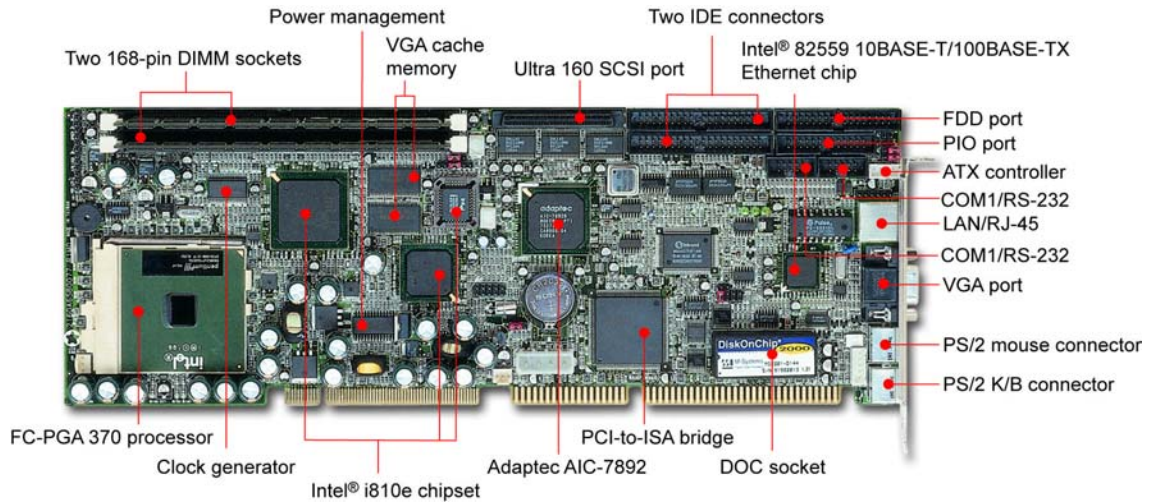
Feature

- **Reliable design for high speed Intel® Pentium® III or Celeron® processor**
- **Intel® 810E AGPset with built-in graphics technology offers integrated graphics performance with more efficient memory utilization and direct AGP**
- **PC100 MHz SDRAM for cost effective memory support**
- **Built-in graphics technology with 4MB display cache for vivid 2D/3D graphics support and cost saving solution**
- **On-board dual Intel® 10BASE-T/100BASE-TX Fast Ethernet for high speed data transfers**
- **Standard features for embedded system, like H/W monitoring, WDT, SSD and Wake-on-LAN**
- **One DOC socket for booting Windows NT directly**
- **On-board Adaptec AIC 7892 Ultra 160 SCSI controller for high performance storage**

Specifications

CPU	- Intel® Pentium® III processors in the FC-PGA 370 package
	- Intel® Celeron® processors in the PPGA & FC-PGA 370 package
System Bus Frequency	66/100 MHz
Chipset	Intel® 810E AGPset
Memory	Up to 512MB PC100 SDRAM on two 168-pin DIMM sockets
BIOS	AMI BIOS
On-Board I/O	- On-board Winbond W83627HF super I/O
	- Support for four EIDE devices with Ultra DMA/33/66
	- Up to two floppy disk drives
	- Two serial, one parallel, one IrDA, and two USB ports
Watchdog Timer	- Programmable via software from 0.5 sec. to 254.5 min.
	- Adjustable via hardware jumper setting from 0.5 sec. to 64 sec.
Keyboard/Mouse	- One mini-DIN 6-pin connector for keyboard and mouse
	- One 5-pin header for external keyboard connection
ISA Bus	64mA high drivig ISA bus interface to backplane for legacy ISA slots
Hardware Monitor	System monitor (fan, temperature, voltage)
ACPI Function	- ATX function with 4-pin header connect to backplane
	- Modem-Ring-On and Wake-On-LAN
Power Consumption	+5V@6A (typ.) ; +12V@100mA, -12V@30mA
Approval	FCC, CE class A
Board Dimension	- 338.5(L) x 122(W) mm ; 13.33"(L) x 4.8"(W)
	- 6-layer PCB
Operating Temperature	0 to 55 ˚C
Storage Temperature	-20 to 75 ˚C
Relative Humidity	5% to 95%, non-condensing

Ordering Guide

ROBO-658
Intel® Pentium® III or Celeron® processor based SBC with VGA, Ethernet and SCSI
ROBO-658Z
Intel® Pentium® III or Celeron® processor based SBC with VGA and Ethernet
ROBO-658W
Intel® Pentium® III or Celeron® processor based SBC with VGA

Additional Functionality

Display	- Intel® 810E AGPset with built-in graphics technology
	- 4MB display memory
	- 2D graphics display resolution up to 1600x1200
	- Full 2D H/W acceleration, 100MHz SDRAM interface
	- 3D hyper pipelined architecture
Ethernet	- 10BASE-T/100BASE-TX Ethernet
	- IEEE 802.3u auto-negotiation support
	- One RJ-45 connector
Solid State Disk	DOC socket for up to 288MB
SCSI	Adaptec AIC 7892 single channel Ultra 160 SCSI controller