

# Industrial Shoebox Computer

## AREMO-6163-06P3-8113

6th Gen Intel® Core™ i5/i7 Processors  
Based Industrial Motion Control  
System for Semiconductor Equipment



### FEATURES

- Intel 6<sup>th</sup> Gen Intel® Core™ i5/i7 processors in LGA1151 package
- DDR4 2133/1866 MHz memory, 2x 288-pin DIMM sockets, up to 32 GB
- Triple independent display by DVI-D, VGA, and HDMI
- Dual Gigabit Ethernet, USB 3.0/2.0, SATA III, and COM port



New HDD Drive Design



Two Adjustable Card Retainer Position



Plastic Fan Filter

### SYSTEM

Processor	Intel® Core™ i5/i7 processors up to 3.4 GHz (35~65W) in LGA1151 package
Chipset/Core Logic	Intel® Q170 PCH
System Memory	Supports up to 32GB DDR4 2133/1866 SDRAM on 2x 288-pin DIMM sockets
BIOS	AMI uEFI BIOS (SPI ROM)
Storage Devices	6x SATAIII drives (Dual ports via Backplane) RAID 0, 1, 5, 10
Watchdog Timer	Programmable via S/W from 0.5 sec. to 254.5 sec
Expansion Interface	From CPU (Core™ i5/i7): 1x PCI Express x16 or 2x PCI Express x8 or 1x PCI Express x8 + 2x PCI Express x4 by jumper setting (Gen3 up to 8.0 GT/s) From PCH: 1x PCI Express x4 or 4x PCI Express x1 by different BIOS support
Hardware Monitoring	CPU & system temperature, onboard voltages
Chassis Construction	Heavy-duty steel
Dimension	260(W) x 420.8(D) x 172(H) mm; 10.24"(W) x 16.56"(D) x 6.77"(H)
Video	VGA
LAN	2x Gigabyte Ethernet

### I/O

MIO	1x RS-232 + 1x RS-232/422/485 LPC to COM port IC: Fintek F81216DG
Ethernet Interface	2x Gigabyte Ethernet
Audio	Intel® High Definition Audio, 5.1 channel audio
USB	10x USB 3.0 ports & 2x USB 2.0 ports

### POWER SUPPLY

Input Voltage	550W 90V ~ 264V AC, full range
Input Frequency	47 ~ 63 Hz
Input Current	6A@90V
Efficiency	> 68%
Holdup Time	17 ms. at full load@25°C
Over Voltage Protection	+5V@7V; +3.3V@4.3V; +12V@15.6V
Over Power/Load Protection	Output power over 110%~140%
MTBF	75,145 hrs
EMI & Safety Approval	UL, TUV

### ENVIRONMENT

Operating Temperature Range	Operation temperature: 0°C to 60°C
Storage Temperature Range	-20 to +80°C
Relative Humidity	5% to 95%, non-condensing