Computer on Module

Compact Board

Slot Board

Industrial Motherboard

Wide Temperature

SBC Daughterboard /Power Convertor /Mounting Kit

Rugged Tablet PC

Medical PC

Industrial Panel PC/Monitor

Wide Temperature Box PC

BOX PC

Network Appliance

Industrial Chassis /Backplane /Power supply

Rigid-752

Extreme Rugged, Intel® Core™ i5-520M, Fanless Embedded Controller

Features

- Wide Operating Temperature (-40 ~ 70°C)
- Fanless Design
- Wide Range DC Power Input (10 ~ 28V)
- Serial Port with 5V/12V Power Output
- Rugged Design for Shock/Vibration Protection
- Rich Onboard I/O and Expansion Slots (1 x PCIe x1, 1 x PCIe x16, 1 x Mini-card, 1 x SIM socket)
- Support Various Video Interfaces (Analog RGB, DisplayPort)
- Support Outside Accessible CFAST Slot
- Support GSM/UMTS, SIM Card for Connection
- Support DDR3 SO-DIMM up to 8GB
- Easy Installation/Maintenance

System

CPU	Intel® Socket G Core™ i5-520M processor
Memory	2 x 204-pin Dual Channels DDR3 SO-DIMM Sockets up to 8GB at 800/1066MHz (2GB WT DDR3-1066 SDRAM installed by default)
Chipset	Intel® QM57
Graphics	Integrated Intel® HD Graphics controller
ATA	2 x Serial ATA ports with 300MB/s HDD transfer rate
LAN Chipset	2 x Intel® WG82574IT Gigabit Ethernet controllers
Watchdog Timer	1~255 levels reset

I/O

Serial Port	1 x DB-44 female connector
	Support 4 x RS-232 ports (COM3,4 is RS-232/485 selectable)
USB Port	8 x USB 2.0 ports
LAN	2 x RJ-45 ports for Gigabit Ethernet
Video Port	1 x DB-15 female connector for Analog RGB
	1 x DisplayPort
Selectable Port	Either of Digital I/O or LPT
	1 x 16-bit digital I/O, 8 in/8 out
	SPP/EPP/ECP mode for LPT
Audio	Mic-in/Line-out (6W pre-amplified)
KB/MS	1 x 6-pin Mini-DIN for Keyboard and Mouse
GSM/UMTS	Up to HSUPA 3.75G(optional Mini-card)
Expansion Bus	1 x PCIe x8 slot w/ riser card
	1 x PCIe x1 slot w/ riser card
	1 x Mini-card slot
	1 x SIM socket

Environmental

Operating Temp.	-40 ~ 70°C (-40 ~ 158°F), ambient w/ air flow
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Relative Humidity	10 ~ 95% @ 40°C (non-condensing)
Vibration	3 Grms/5~500Hz/random operation
Shock & Crash	Operating 20G (11ms), Non-operating 40G with HDD
	Operating 40G (11ms), Non-operating 60G with CF/SSD
	Crash 80G (11ms)

Qualification

Certification	CE, FCC

Power Requirement

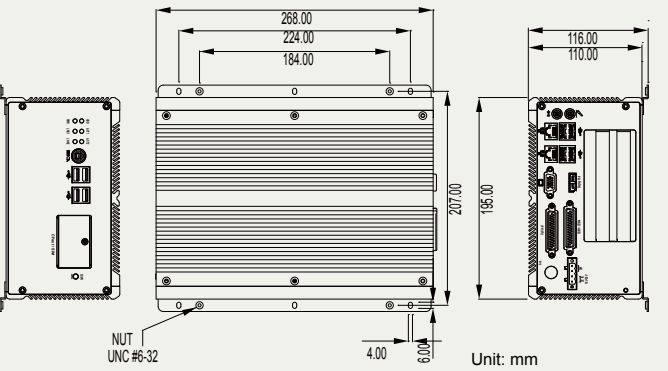|	
Power Input	DC 10~28V input (w/ 4-pin DC input terminal block combine remote power on/off switch)
Power Consumption	TBD

Storage

Type	1 x 2.5" drive bay for HDD/SSD
	1 x CFAST Socket which can be outside accessible

Mechanical

Construction	Aluminum alloy
Mounting	Support wall-mounting/Din rail mounting
Weight	TBD
Dimensions (W x D x H)	195 x 268 x 90 mm (7.68" x 10.55" x 4.33")

Drawing

268.00
224.00
184.00
116.00
110.00
207.00
195.00
NUT UNC #6-32
4.00
6.00
Unit: mm

Ordering Information

FPC-752	Barebone system w/o storage device, CPU, memory
DRK-001	Din rail kit of FPC series
WMK-7000	Wall-mount kit of FPC-7XXX
PAC-B120W	120W AC/DC adapter kit
SSD-25080	Intel® 2.5" 80GB SATAII SSD kit

All specifications are subject to change without notice.