

Rigid-352

Robust Vehicle Computer with Intel® Atom™ D525 Platform



Features

- Ultra Low Power and Fanless Design
- 2 x RS-232 and 2 x RS-232/422/485 Serial Ports with 12V Power Output
- Smarter Ignition Power on/off, Delay-time and Battery Low Voltage Protection
- Over-voltage and Reversed Power Input Protection
- Isolated Digital I/O with +12/+5V Power Output
- Multiple Connectivities (WiFi, HSUPA, GPS)
- Wide Range DC Power Input (6~32V)
- Rugged Design for Shock/Vibration Protection
- Intel® SSD Compatible

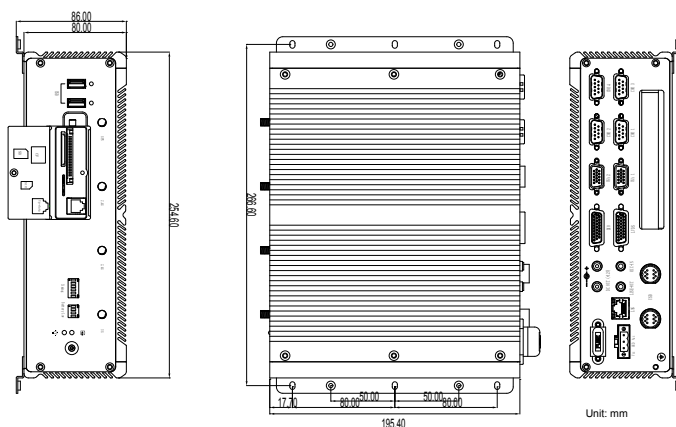
System	
CPU	Soldered onboard Intel® Atom™ Processor D525 1.8GHz
Memory	2 x 204-pin dual channel DDR3 SO-DIMM sockets up to 4GB at 800MHz
Chipset	ICH8M
Graphics	Integrated Intel® GMA3150
SATA	2 x Serial ATA ports with 300MB/s HDD transfer rate
Connectivity	GPS module (u-blox solution) (optional)
	802.11 b/g/n Wireless LAN Mini-card (optional)
	HSUPA (3.75G) Mini-card (optional)
Watchdog Timer	1~255 levels reset
I/O	
Serial Port	2 x RS-232 and 2 x RS-232/422/485 ports
USB Port	6 x USB2.0 ports (2 x lockable connectors for 4 x USB 2.0 ports)
LAN	1 x RJ-45 for Gigabit Ethernet
Video Port	2 x DB-15 female connectors for Analog RGB (Clone mode)
	1 x DB-26 male connector for single/dual channel 18/24-bit LVDS output
Digital I/O	1 x 16-bit digital I/O (8-in / 8-out)
	1 x DB-26 female connector for 8-in/ 8-out isolated I/O and +12/+5V power output (rating 1A, PTC FUSE 2~2.5A)
Antenna	4 x SMA female connectors' holes for external antennas, two for WiFi, one for HSUPA, one for GPS
Audio	Mic-in/Line-out (6W pre-amplified)
Expansion Bus	1 x PCIe x1 slot, 1 x PCI slot
	1 x Mini-card slot for optional WiFi module
	1 x Mini-card slot interconnected with SIM card socket for HSUPA module
	1 x SIM card socket (outside accessible)

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	EN61373: 1999 Class B standard compliant
Shock	EN61373: 1999 Class B standard compliant
Qualification	
Certification	CE, FCC Class A, e1 Mark
Power Requirement	
Power Input	DC input 6~32V w/ 3-pin terminal block
Power Output	2 x 1-pin lockable jack for 12V/1A power output
FUSE	1 x FUSE receptacle w/ cover (outside accessible)
Power Consumption	Max. 35W (w/o DC output and I/O card)

Storage	
Type	1 x 2.5" SATA drive bay for HDD (with 9.5mm height limit)/SSD
	1 x CompactFlash Type II socket (outside accessible)
	1 x SD socket (outside accessible)

Mechanical	
Construction	Aluminum alloy
Mounting	Wall-mount
Weight	3.76 kg (8.27 lb)
Dimensions (W x D x H)	254 x 195 x 80 mm (10" x 7.68" x 3.15")
Ordering Information	
Rigid-352	Fanless vehicle computer

Dimensions



Standard Accessories

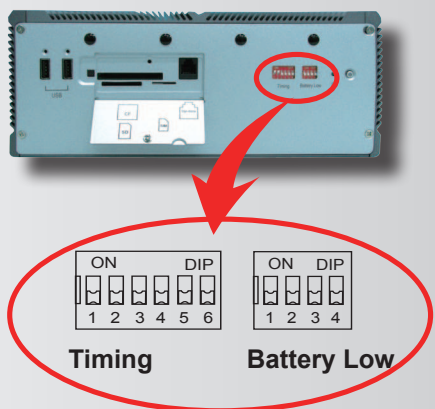
PAC-B065W-35X	19V/3.4A 65W AC/DC adapter kit	
WMK-5000	Wall-mount kit for FPC-35XX Series	

Optional Configuration (CTOS* Kit)

MM-3C-2G	DDR3-1333 2GB SDRAM	
80G SSD	Intel® 2.5" 80GB SATAIII SSD kit	
CBL-3500-USB	2-port IP67 USB cable	
HSPA-SI1400	HSUPA 3.75G module kit & internal wiring	
WIFI-AT2300	Atheros AR9462 WiFi module w/ 20cm internal wiring	
GPS-UART-kit	u-blox GPS kit	
ANT-H11	2dBi HSUPA antenna	
ANT-D11	WiFi Dual-band 2.4G/5G antenna	

*CTOS means Configure-to-Order Service.

» Front Panel



System On/Off Timing Setting Jumper

Pin	DIP SW Auto Car Key on Detection	Description
1	On, Off (default)	Auto Power On (1 - Auto / 0 - Manual)
2	On, Off (default)	Auto Power Off (1 - Auto / 0 - Manual)
3 & 4	On, Off (default)	Power-on Waiting Time – Setup Timing (00-4s)(01-8s)(10-12s)(11-16s)
5 & 6	On, Off (default)	Power-off Waiting Time – Setup Timing (00-30s)(01-45s)(10-60s)(11-90s)

Battery Low Setting Jumper

Pin	Battery Low	Description
1	On, Off (default)	BUS Low Voltage Detection (24V)
2	On (default), Off	CAR Low Voltage Detection (12V)
3	On, Off (default)	Normally Low Voltage Detection (9V above)
4	On, Off (default)	Car Engine Ignition Detection