





#### **Features**

#### Intel® Atom™ processor C2000 product family (codenamed "Rangeley") Multi-core SoC (System-On-Chip)

Intel® Atom™ processor C2000 product family (codenamed "Rangeley") is a multi-core SoC featuring high levels of I/O integration and an Intel® QuickAssist™ Technology hardware acceleration engine. The platform targeted at entry to mid branch office routers, security appliances, switches, wireless and control plane applications.

# Virtualization Technology (VT-x) Support

Intel virtualization technology (Intel VT) is a hardware-assisted portfolio of capabilities to enhance virtualization. For processors, the Intel VT-x is a bundle of virtualization features built into Intel Atom C2000 processors to improve the flexibility and robustness of software-based virtualization solutions.

#### Intel's Next Generation Communications Platform & Acceleration Technology

With Intel new Atom C2000 CPU, the FW-7551 can take full advantage of Intel's QuickAssist acceleration technology. Coupled with Intel's next generation CPU, the FW-7551 is capable of meeting the demand for computing power and for accelerating crypto packet processing.

## Watchdog Control LAN Bypass & Power Off LAN Bypass

The embedded watchdog monitors the system so that it can automatically trigger a reset if software hangs; bypass ports allow users to have uninterrupted network traffic even if a single in-line appliance is shut down or is hung. Both are essential features of a network appliance.



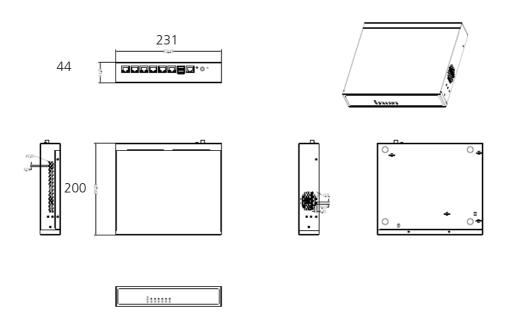
#### **ECC Memory Support**

The FW-7551 supports Error-Correcting Code (ECC) memory technology, a server-grade memory technology that can identify and correct memory corruption automatically. With ECC, system performance is more secure and stable.

#### **Rack Mounting Kit Option Available**

The FW-7551 provides rack mounting option which is a long ear to hook up the rack. This design is ideal for desktop form factor device to place on the rack to save the space in computer room.

#### **Dimensions (W x H x D): 231 x 44 x 200 mm**



## **Specifications**

Platform  Processor Options Chipset  N/A  OS Support  BIOS  Technology  Max. Capacity Socket  HDD Bays  CF/SD  Ethernet Ports Bypass  SKU A/C/D: 2 pairs Gen.2, SKU B: N/A  Controllers  Ethernet Modules  Management Port  N/A  Reset Button  Console  IVO Interface  Expansion  Processor  Cooling  Environmental Parameters  Physical  Dimensions  Vision  Chipset  N/A  NA  It v. Socket  1 or 2 x 204-pin SODIMM  An IBIOS 16Mb  DDR3 1333/1600 MHz, ECC only  8 or 16 GB  Socket  1 or 2 x 204-pin SODIMM  An IBIO SDIMM  A v. 2.5" HDD/SSD kit (Optional)  1 x CF Card Type II  Ethernet Ports  4 or 6 x GbE R1-45 onboard  Bypass  SKU A/C/D: 2 pairs Gen.2, SKU B: N/A  A or 6 x GbE R1-45 onboard  Bypass  SKU A/C/D: 2 pairs Gen.2, SKU B: N/A  N/A  N/A  N/A  Reset Button  Yes  Console  1 x RJ45  2 x USB 2.0  IPMI via OPMA slot  N/A  Display  N/A  PCI  N/A  Couling  Temperature, ambient operating J storage  Humidity (RH), ambient operating J storage  J st			
Chipset   Chipset   N/A	Form Factor		Desktop
Display   Disp	Platform	Processor Options	
Technology		Chipset	N/A
Technology  DDR3 1333/1600 MHz, ECC only  Max. Capacity Socket  1 or 2 x 204-pin SODIMM  HDD Bays  1 x 2.5" HDD/SSD kit (Optional)  CF/SD  1 x CF card Type II  Ethernet Ports 4 or 6 x GbE RJ-45 onboard  Bypass  SKU A/C/D: 2 pairs Gen. 2, SKU B: N/A  Controllers  Ethernet Modules N/A  Management Port  N/A  Reset Button  Console  1 x RJ45  USB 2 x USB 2.0  IPMI via OPMA slot Display N/A  Display N/A  PCI PCI N/A  PC	OS Support		Linux Kernel 2.6 or above
Max. Capacity   S or 16 GB	BIOS		AMI BIOS 16Mb
Socket	System Memory	Technology	DDR3 1333/1600 MHz, ECC only
Storage  HDD Bays  CF/SD  1 x CF card Type II  Ethernet Ports  4 or 6 x GbE RJ-45 onboard  Bypass  SKU A/C/D: 2 pairs Gen.2, SKU B: N/A  Controllers  Ethernet Modules  N/A  Management Port  N/A  Reset Button  Yes  Console  1 x RJ45  USB  2 x USB 2.0  IPMI via OPMA slot  Display  N/A  PCI  N/A  P		Max. Capacity	8 or 16 GB
CF/SD 1 x CF card Type II  Ethernet Ports 4 or 6 x GbE RJ-45 onboard  Bypass SKU A/C/D: 2 pairs Gen.2, SKU B: N/A  Controllers 2 x Intel i210AT, 1 x Marvell 88E1543  Ethernet Modules N/A  Management Port N/A  Reset Button Yes  Console 1 x RJ45  I/O Interface USB 2 x USB 2.0  IPMI via OPMA slot N/A  Display N/A  PCI N/A  POSserm 1 x cooling Fan with smart fan control  Temperature, ambient operating / storage Humidity (RH), ambient operating / ambient non-operating / ambient non-operating / ambient non-operating / ambient non-operating / watchdog Yes  Internal RTC with Li Battery Yes  Power  Type / Watts John SKU N/A SUD Watts John SW Power Adapter Input  Input 100-240 V @50-60 Hz		Socket	1 or 2 x 204-pin SODIMM
Ethernet Ports   4 or 6 x GbE RI-45 onboard	Storage	HDD Bays	1 x 2.5" HDD/SSD kit (Optional)
Bypass   SKU A/C/D: 2 pairs Gen.2, SKU B: N/A		CF/SD	1 x CF card Type II
Controllers   2 x Intel i210AT, 1 x Marvell 88E1543     Ethernet Modules   N/A     Management Port   N/A     Reset Button   Yes     Console   1 x RJ45     USB   2 x USB 2.0     IPMI via OPMA slot   N/A     Display   N/A     PCI   N/A	Networking	Ethernet Ports	4 or 6 x GbE RJ-45 onboard
Ethernet Modules Management Port N/A  Reset Button Yes Console 1 x RJ45 USB 2 x USB 2.0  IPMI via OPMA slot Display N/A  PCI PCI N/A P		Bypass	SKU A/C/D: 2 pairs Gen.2, SKU B: N/A
Management Port  Reset Button Yes  Console  1 x RI45  USB 2 x USB 2.0  IPMI via OPMA slot Display N/A  PCIe PCI N/A  Processor System 1 x cooling Fan with smart fan control  Temperature, ambient operating / storage Humidity (RH), ambient operating / a mbient non-operating / a mbient non-operating / a mbient non-operating / a mbient non-operating  LCD Module  Miscellaneous  Miscellaneous  Physical Dimensions  Weight  Type / Watts Jonean  Jonea		Controllers	2 x Intel i210AT, 1 x Marvell 88E1543
Reset Button  Console  1 x RJ45  USB  2 x USB 2.0  IPMI via OPMA slot Display  N/A  PCIe PCI  N/A  Processor System  1 x cooling Fan with smart fan control  Temperature, ambient operating / storage Humidity (RH), ambient operating / ambient non-operating / ambient non-operating / ambient non-operating / watchdog  LCD Module  Miscellaneous  Physical Dimensions  Weight  Type / Watts Input  N/A  Yes  1 x cooling Fan with smart fan control  5~90%, non-condensing / 5~95%, non-condensing N/A  Watchdog Yes  1 x cooling Fan with smart fan control  2 40° C / -20~70° C  5~90%, non-condensing / 5~95%, non-condensing N/A  Watchdog Yes  Internal RTC with Li Battery Yes  Physical Dimensions  Type / Watts Input  100~240 V @50~60 Hz		Ethernet Modules	N/A
Console		Management Port	N/A
USB   2 x USB 2.0     IPMI via OPMA slot   N/A     Display   N/A     PCI   N/A     PCI   N/A     Processor   CPU heatsink     System   1 x cooling Fan with smart fan control     Impurature, ambient operating / storage   Humidity (RH), ambient operating / ambient non-operating     ICD Module   N/A     Watchdog   Yes     Internal RTC with Li Battery   Yes     Physical   Dimensions   Weight   1.2 kg     Power   Type / Watts   Input   100~240 V @50~60 Hz	I/O Interface	Reset Button	Yes
IPMI via OPMA slot   N/A     Display   N/A     PCI   N/A     PCI   N/A     Processor   CPU heatsink     System   1 x cooling Fan with smart fan control     Imperature, ambient operating / storage     Humidity (RH), ambient operating / storage     Humidity (RH), ambient operating / ambient non-operating     ICD Module   N/A     Watchdog   Yes     Internal RTC with Li Battery   Yes     Physical   Dimensions   Weight     Type / Watts   John County (With Ambient of the process of the		Console	1 x RJ45
Display  N/A  PCIe  PCI  N/A  PCI  N/A  Processor  CPU heatsink  System  1 x cooling Fan with smart fan control  Temperature, ambient operating / storage Humidity (RH), ambient operating / ambient non-operating / mobient non-operating LCD Module  Miscellaneous  Miscellaneous  Miscellaneous  Physical Dimensions  Dimensions  Dimensions  Dimensions  Dimensions  Display  N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/		USB	2 x USB 2.0
PCI N/A Processor CPU heatsink System 1 x cooling Fan with smart fan control  Temperature, ambient operating / storage Humidity (RH), ambient operating / ambient non-operating / ambient non-operating  LCD Module N/A  Watchdog Yes Internal RTC with Li Battery Yes  Physical Dimensions Weight  Type / Watts Input  N/A  N/A  N/A  Yes  231 x 44 x 200 mm  Type / Watts Input  100~240 V @50~60 Hz		IPMI via OPMA slot	N/A
PCI N/A  Processor CPU heatsink System 1 x cooling Fan with smart fan control  Temperature, ambient operating / storage Humidity (RH), ambient operating / ambient non-operating / ambient non-operating / Ves  Miscellaneous Internal RTC with Li Battery Yes  Physical Dimensions Weight 1.2 kg  Type / Watts 100~240 V @50~60 Hz		Display	N/A
PCI N/A  Processor System 1 x cooling Fan with smart fan control  Temperature, ambient operating / storage Humidity (RH), ambient operating / ambient non-operating LCD Module N/A  Miscellaneous Watchdog Internal RTC with Li Battery Physical Dimensions Weight Type / Watts Input  Processor CPU heatsink CPU heatsink  1 x cooling Fan with smart fan control  0 ~ 40° C / -20~70° C  5~90%, non-condensing / 5~95%, non-condensing N/A  Yes  2~90%, non-condensing / 5~95%, non-condensing  1~90%, non-co	Expansion	PCle	N/A
System   1 x cooling Fan with smart fan control		PCI	N/A
System 1 x cooling Fan with smart fan control  Temperature, ambient operating / storage Humidity (RH), ambient operating / ambient non-operating LCD Module Miscellaneous  Miscellaneous  Watchdog Internal RTC with Li Battery  Physical Dimensions  Weight  Type / Watts Input  1 x cooling Fan with smart fan control 0 ~ 40° C / -20~70° C 5~90%, non-condensing / 5~95%, non-condensing N/A  Yes  1x cooling Fan with smart fan control 0 ~ 40° C / -20~70° C 5~90%, non-condensing / 5~95%, non-condensing 1x cooling Fan with smart fan control 0 ~ 40° C / -20~70° C 5~90%, non-condensing / 5~95%, non-condensing 1x cooling Fan with smart fan control 0 ~ 40° C / -20~70° C 5~90%, non-condensing / 5~95%, non-condensing 1x cooling Fan with smart fan control 0 ~ 40° C / -20~70° C 5~90%, non-condensing / 5~95%, non-condensing 1x cooling Fan with smart fan control 0 ~ 40° C / -20~70° C 5~90%, non-condensing / 5~95%, non-condensing 1x cooling Fan with smart fan control 0 ~ 40° C / -20~70° C 5~90%, non-condensing / 5~95%, non-condensing 1x cooling Fan with smart fan control 0 ~ 40° C / -20~70° C 5~90%, non-condensing / 5~95%, non-condensing 1x cooling Fan with smart fan control 0 ~ 40° C / -20~70° C 5~90%, non-condensing / 5~95%, non-condensing 1x cooling Fan with smart fan control 0 ~ 40° C / -20~70° C 5~90%, non-condensing / 5~95%, non-condensing 1x cooling Fan with smart fan control 0 ~ 40° C / -20~70° C 5~90%, non-condensing / 5~95%, non-condensing 1x cooling Fan with smart fan control 0 ~ 40° C / -20~70° C 5~90%, non-condensing / 5~95%, non-condensing 1x cooling Fan with smart fan control 1x cooling Fan with smart fan con	Cooling	Processor	CPU heatsink
Astorage			1 x cooling Fan with smart fan control
ing / ambient non-operating  LCD Module  N/A  Miscellaneous  Watchdog  Internal RTC with Li Battery  Physical Dimensions  Weight  Type / Watts  Input  N/A  Yes  231 x 44 x 200 mm  1.2 kg  Type / Watts  36W or 60W Power Adapter  Input  100~240 V @50~60 Hz	Environmental Parameters	/ storage	0 ~ 40° C / -20~70° C
Miscellaneous         Watchdog         Yes           Internal RTC with Li Battery         Yes           Physical Dimensions (WxHxD)         231 x 44 x 200 mm           Weight         1.2 kg           Type / Watts         36W or 60W Power Adapter           Input         100~240 V @50~60 Hz		ing / ambient non-operating	, , , , , , , , , , , , , , , , , , ,
Internal RTC with Li Battery   Yes	Miscellaneous	LCD Module	N/A
Physical Dimensions (WxHxD)         231 x 44 x 200 mm           Dimensions         Weight         1.2 kg           Power         Type / Watts         36W or 60W Power Adapter           Input         100~240 V @50~60 Hz		3	Yes
Dimensions         Weight         1.2 kg           Power         Type / Watts         36W or 60W Power Adapter           Input         100~240 V @50~60 Hz		Internal RTC with Li Battery	Yes
Power   Type / Watts   36W or 60W Power Adapter   Input   100~240 V @50~60 Hz	Physical Dimensions	Dimensions (WxHxD)	231 x 44 x 200 mm
Input		Weight	1.2 kg
Input 100~240 V @50~60 Hz	Power	Type / Watts	36W or 60W Power Adapter
Approvals and Compliance CF Class R FCC Class R RoHS		<u> </u>	100~240 V @50~60 Hz
Approvais and compilance	Approvals and Con	CE Class B, FCC Class B, RoHS	



### **Ordering Information**

FW-7551A	Intel® Atom <sup>™</sup> processor C2358 (Codenamed "Rangeley"), 6 GbE LAN ports with Gen.2 Bypass, 36 W power adapter
FW-7551B	Intel® Atom <sup>™</sup> processor C2358 (Codenamed "Rangeley"), 4 GbE LAN ports without Bypass, 36 W power adapter
FW-7551C	Intel® Atom <sup>™</sup> processor C2518 (Codenamed "Rangeley"), 6 GbE LAN ports with Gen.2 Bypass, 60 W power adapter
FW-7551D	Intel® Atom <sup>™</sup> processor C2758 (Codenamed "Rangeley"), 6 GbE LAN ports with Gen.2 Bypass, 60 W power adapter