

	APEXA CORE 1560 was launched as the successor to APEXA, which was recognized as an industry best-seller. In addition to the design and functionality of APEXA, we applied the 11th and 12th-generation CPUs and used an ultra-thin bezel and 7H tempered glass monitor to improve touch precision and reliability. This supports Intel 13th generation CPU.		
			
	APEXA® CORE RL-1560	APEXA® CORE AP-1560	APEXA® CORE AN-1560
			
System	System		
Processors	Intel® Core™ i3-1315U Processor 10M Cache, up to 4.50 GHz Intel® Core™ i5-1335U Processor 12M Cache, up to 4.60 GHz	Intel® Core™ i3-1215U Processor 10M Cache, up to 4.40 GHz Intel® Core™ i5-1235U Processor 12M Cache, up to 4.40 GHz	Intel® Processor N97 6M Cache, up to 3.60 GHz
Chipset	Intel® Raptor Lake	Intel® Alder Lake-P	Intel® Alder Lake-N
Memory	4GB Standard, DDR4 3200 MT/s, Socket 1 x SODIMM (Max. 32GB)	4GB Standard, DDR4 3200 MT/s, Socket 1 x SODIMM (Max. 32GB)	4GB Standard, DDR4 3200 MT/s, Socket 1 x SODIMM (Max. 16GB)
Storage	1. Form Factor NVME M.2 2242-D2-M (No capacity limit.) 2. Mountable quantity: Up to 2 units can be installed. * Factory Default : NVMe M.2 2242 128GB x 1	1. Form Factor NVME M.2 2242-D2-M (No capacity limit.) 2. Mountable quantity: Up to 2 units can be installed. * Factory Default : NVMe M.2 2242 128GB x 1	1. Form Factor NVME M.2 2242-D2-M (No capacity limit.) 2. Mountable quantity: Up to 2 units can be installed. * Factory Default : NVMe M.2 2242 128GB x 1
RAID	RAID 0,1	RAID 0,1	-
Operating Systems	Windows 10 version 21H1 or higher Windows 11 LTSC 7AH7	Windows 10 version 21H1 or higher Windows 11 LTSC 7AH7	Windows 10 version 21H1 or higher Windows 11 LTSC 7AH7
Audio	HD Audio Codec	HD Audio Codec	HD Audio Codec
Display	Display		
Type	15.6" FHD TFT LCD, LED Backlight	15.6" FHD TFT LCD, LED Backlight	15.6" FHD TFT LCD, LED Backlight
Resolution	1920 x 1080	1920 x 1080	1920 x 1080
Brightness	300 cd/m² (typ.)	300 cd/m² (typ.)	300 cd/m² (typ.)
Touchscreen	Projected Capacitive Touch, AF	Projected Capacitive Touch, AF	Projected Capacitive Touch, AF
Interface	Interface		
Display	Displayport x 2, MiniDP, USB C (Altmode)	Displayport x 2, MiniDP, USB C (Altmode)	Displayport x 2 (MiniDP / USB-C (Alt-Mode)
USB	Front 4, Rear 4 4 (USB 2.0 * 4) 4 (USB 3.0 * 2, USB 2.0 x 1, USB C type x 1)	Front 4, Rear 4 4 (USB 2.0 * 4) 4 (USB 3.0 * 2, USB 2.0 x 1, USB C type x 1)	Front 4, Rear 4 4 (USB 2.0 * 4) 4 (USB 3.0 * 2, USB 2.0 x 1, USB C type x 1)
Serial	6 (COM 1 RJ45, with 5V/12V Power Output on 6 Pins, BIOS) (COM2~3 RJ-45, Full Signal) (COM4 MiniDP, Only TX/RX, 12V Power Output, Reserved for CDP) (COM5, Full Signal) (COM6 PinHeader, Only TX/RX, 5V Power Output, Reserved for MSR)	6 (COM 1 RJ45, with 5V/12V Power Output on 6 Pins, BIOS) (COM2~3 RJ-45, Full Signal) (COM4 MiniDP, Only TX/RX, 12V Power Output, Reserved for CDP) (COM5, Full Signal) (COM6 PinHeader, Only TX/RX, 5V Power Output, Reserved for MSR)	6 (COM 1 RJ45, with 5V/12V Power Output on 6 Pins, BIOS) (COM2~3 RJ-45, Full Signal) (COM4 MiniDP, Only TX/RX, 12V Power Output, Reserved for CDP) (COM5, Full Signal) (COM6 PinHeader, Only TX/RX, 5V Power Output, Reserved for MSR)
CashDrawer Port	RJ-11 x 1 (Integrated circuit GPIO)	RJ-11 x 1 (Integrated circuit GPIO)	RJ-11 x 1 (Integrated circuit GPIO)
Back I/O	-	-	-
Optimal I/O	Support I/O Expansion Box - Concept 1 : 12V Powered USB 2.0 x2 / 24V Powered USB 2.0 x1 / RJ45 x 2 (Full Signal) - Concept 2 : 12V Powered USB 2.0 x1 / 24V Powered USB 2.0 x1 / USB 2.0 x 2 / RJ45 x 2 (Full Signal) - Concept 3 : 12V Powered USB 2.0 x1 / USB 2.0 x 4 / RJ45 x 2 (Full Signal) - Concept 4 : USB 2.0 x 6 / RJ45 x 2 (Full Signal) One option attachable at a time	Support I/O Expansion Box - Concept 1 : 12V Powered USB 2.0 x2 / 24V Powered USB 2.0 x1 / RJ45 x 2 (Full Signal) - Concept 2 : 12V Powered USB 2.0 x1 / 24V Powered USB 2.0 x1 / USB 2.0 x 2 / RJ45 x 2 (Full Signal) - Concept 3 : 12V Powered USB 2.0 x1 / USB 2.0 x 4 / RJ45 x 2 (Full Signal) - Concept 4 : USB 2.0 x 6 / RJ45 x 2 (Full Signal) One option attachable at a time	Support I/O Expansion Box - Concept 1 : 12V Powered USB 2.0 x2 / 24V Powered USB 2.0 x1 / RJ45 x 2 (Full Signal) - Concept 2 : 12V Powered USB 2.0 x1 / 24V Powered USB 2.0 x1 / USB 2.0 x 2 / RJ45 x 2 (Full Signal) - Concept 3 : 12V Powered USB 2.0 x1 / USB 2.0 x 4 / RJ45 x 2 (Full Signal) - Concept 4 : USB 2.0 x 6 / RJ45 x 2 (Full Signal) One option attachable at a time
LAN	Gigabit Ethernet x 1 (RJ-45)	Gigabit Ethernet x 1 (RJ-45)	Gigabit Ethernet x 1 (RJ-45)
Audio	Line-out(Stereo) x 1, 1W SPK(MONO) x1	Line-out(Stereo) x 1, 1W SPK(MONO) x1	Line-out(Stereo) x 1, 1W SPK(MONO) x1
Power DC-IN	4 Pin DIN Jack	4 Pin DIN Jack	4 Pin DIN Jack
Extension Slot	M.2 x 2 for WiFi/BT, SSD	M.2 x 2 for WiFi/BT, SSD	M.2 x 2 for WiFi/BT, SSD
Power	Power		
Power Supply	Adapter 12V, 5A (Nomarl) / 24V, 6.35A(EXT IO BOX Option)	Adapter 12V, 5A (Nomarl) / 24V, 6.35A(EXT IO BOX Option)	Adapter 12V, 5A (Nomarl) / 24V, 6.35A(EXT IO BOX Option)
Physical & Environmental	Physical & Environmental		
Operating Temperature	0 °C ~ 60 °C at 10% to 90% Humidity	0 °C ~ 60 °C at 10% to 90% Humidity	0 °C ~ 60 °C at 10% to 90% Humidity
Storage Temperature	-20 °C ~ 80 °C at 10% to 90% Humidity	-20 °C ~ 80 °C at 10% to 90% Humidity	-20 °C ~ 80 °C at 10% to 90% Humidity
Dimensions (W x H x D)	372 x 206 x 301(mm) 14.6 x 8.11 x 11.8(in)	372 x 206 x 301(mm) 14.6 x 8.11 x 11.8(in)	372 x 206 x 301(mm) 14.6 x 8.11 x 11.8(in)
Packing Dimensions (W x H x D)	435 x 485 x 165 (mm)	435 x 485 x 165 (mm)	435 x 485 x 165 (mm)
Net Weight	3.44kg	3.44kg	3.44kg
Packing Weight	4.53kg	4.53kg	4.53kg
Certification	KC, FCC, CE	KC, FCC, CE	KC, FCC, CE
Color	Dark Gray, White	Dark Gray, White	Dark Gray, White
Options & Peripherals	Options & Peripherals		
2nd Displays	9.7" (1024 x 768), 10.1" (1280X800), 15"(1024X768) LCD Display, Optional Touchscreen	9.7" (1024 x 768), 10.1" (1280X800), 15"(1024X768) LCD Display, Optional Touchscreen	9.7" (1024 x 768), 10.1" (1280X800), 15"(1024X768) LCD Display, Optional Touchscreen
Customer Display	VFD, 20 Columns x 2 Lines	VFD, 20 Columns x 2 Lines	VFD, 20 Columns x 2 Lines
External IO BOX	-	-	-
Storage	NVME M.2 128G	NVME M.2 128G	NVME M.2 128G

Magnetic Stripe Reader	Comply with ISO 7811, Support 1 & 2 & 3 Track	Comply with ISO 7811, Support 1 & 2 & 3 Track	Comply with ISO 7811, Support 1 & 2 & 3 Track
Smart Card Reader	EMV Level 1	EMV Level 1	EMV Level 1
Dallas	Dallas i-button Reader	Dallas i-button Reader	Dallas i-button Reader
Fingerprint	Yes	Yes	Yes
Wall Mount Kit	VESA-Compatible, 75 x 75(mm), 100 x 100(mm)	VESA-Compatible, 75 x 75(mm), 100 x 100(mm)	VESA-Compatible, 75 x 75(mm), 100 x 100(mm)
Serial Conversion Cable	RJ-45 to D-sub 9	RJ-45 to D-sub 9	RJ-45 to D-sub 9
Speaker	-	-	-
WiFi/BT	M.2 for WiFi/BT	M.2 for WiFi/BT	M.2 for WiFi/BT
TPM	Support	Support	Support

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	APEXA CORE 1500 was launched as the successor to APEXA, which was recognized as an industry best-seller. In addition to the design and functionality of APEXA, we applied the 11th and 12th-generation CPUs and used an ultra-thin bezel and 7H tempered glass monitor to improve touch precision and reliability. This supports Intel 13th generation CPU.		
			
System	System		
Processors	Intel® Core™ i3-1315U Processor 10M Cache, up to 4.50 GHz Intel® Core™ i5-1335U Processor 12M Cache, up to 4.60 GHz	Intel® Core™ i3-1215U Processor 10M Cache, up to 4.40 GHz Intel® Core™ i5-1235U Processor 12M Cache, up to 4.40 GHz	Intel® Processor N97 6M Cache, up to 3.60 GHz
Chipset	Intel® Raptor Lake	Intel® Alder Lake-P	Intel® Alder Lake-N
Memory	4GB Standard, DDR4 3200 MT/s, Socket 1 x SODIMM (Max. 32GB)	4GB Standard, DDR4 3200 MT/s, Socket 1 x SODIMM (Max. 32GB)	4GB Standard, DDR4 3200 MT/s, Socket 1 x SODIMM (Max. 16GB)
Storage	1. Form Factor NVME M.2 2242-D2-M (No capacity limit.) 2. Mountable quantity: Up to 2 units can be installed. * Factory Default : NVMe M.2 2242 128GB x 1	1. Form Factor NVME M.2 2242-D2-M (No capacity limit.) 2. Mountable quantity: Up to 2 units can be installed. * Factory Default : NVMe M.2 2242 128GB x 1	1. Form Factor NVME M.2 2242-D2-M (No capacity limit.) 2. Mountable quantity: Up to 2 units can be installed. * Factory Default : NVMe M.2 2242 128GB x 1
RAID	RAID 0,1	RAID 0,1	-
Operating Systems	Windows 10 version 21H2 or higher	Windows 10 version 21H1 or higher	Windows 10 version 21H1 or higher
Audio	HD Audio Codec	HD Audio Codec	HD Audio Codec
Display	Display		
Type	15" TFT LCD, LED Backlight	15" TFT LCD, LED Backlight	15" TFT LCD, LED Backlight
Resolution	1024 x 768	1024 x 768	1024 x 768
Brightness	300 cd/m² (typ.)	300 cd/m² (typ.)	300 cd/m² (typ.)
Touchscreen	Projected Capacitive Touch	Projected Capacitive Touch	Projected Capacitive Touch
Interface	Interface		
Display	Displayport x 2, MiniDP, USB C (Altmode)	Displayport x 2, MiniDP, USB C (Altmode)	Displayport x 2 (MiniDP / USB-C (Alt-Mode)
USB	Front 4, Rear 4 4 (USB 2.0 * 4) 4 (USB 3.0 * 2, USB 2.0 x 1, USB C type x 1)	Front 4, Rear 4 4 (USB 2.0 * 4) 4 (USB 3.0 * 2, USB 2.0 x 1, USB C type x 1)	Front 4, Rear 4 4 (USB 2.0 * 4) 4 (USB 3.0 * 2, USB 2.0 x 1, USB C type x 1)
Serial	6 (COM 1 RJ45 , with 5V/12V Power Output on 6 Pins, BIOS) (COM2~3 RJ-45 , Full Signal) (COM4 MiniDP, Only TX/RX, 12V Power Output, Reserved for CDP) (COM5, Full Signal) (COM6 PinHeader, Only TX/RX, 5V Power Output, Reserved for MSR)	6 (COM 1 RJ45 , with 5V/12V Power Output on 6 Pins, BIOS) (COM2~3 RJ-45 , Full Signal) (COM4 MiniDP, Only TX/RX, 12V Power Output, Reserved for CDP) (COM5, Full Signal) (COM6 PinHeader, Only TX/RX, 5V Power Output, Reserved for MSR)	6 (COM 1 RJ45 , with 5V/12V Power Output on 6 Pins, BIOS) (COM2~3 RJ-45 , Full Signal) (COM4 MiniDP, Only TX/RX, 12V Power Output, Reserved for CDP) (COM5, Full Signal) (COM6 PinHeader, Only TX/RX, 5V Power Output, Reserved for MSR)
CashDrawer Port	RJ-11 x 1 (Integrated circuit GPIO)	RJ-11 x 1 (Integrated circuit GPIO)	RJ-11 x 1 (Integrated circuit GPIO)
Back I/O	-	-	-
Optimal I/O	Support I/O Expansion Box - Concept 1 : 12V Powered USB 2.0 x2 / 24V Powered USB 2.0 x1 / RJ45 x 2 (Full Signal) - Concept 2 : 12V Powered USB 2.0 x1 / 24V Powered USB 2.0 x1 / USB 2.0 x 2 / RJ45 x 2 (Full Signal) - Concept 3 : 12V Powered USB 2.0 x1 / USB 2.0 x 4 / RJ45 x 2 (Full Signal) - Concept 4 : USB 2.0 x 6 / RJ45 x 2 (Full Signal) One option attachable at a time	Support I/O Expansion Box - Concept 1 : 12V Powered USB 2.0 x2 / 24V Powered USB 2.0 x1 / RJ45 x 2 (Full Signal) - Concept 2 : 12V Powered USB 2.0 x1 / 24V Powered USB 2.0 x1 / USB 2.0 x 2 / RJ45 x 2 (Full Signal) - Concept 3 : 12V Powered USB 2.0 x1 / USB 2.0 x 4 / RJ45 x 2 (Full Signal) - Concept 4 : USB 2.0 x 6 / RJ45 x 2 (Full Signal) One option attachable at a time	Support I/O Expansion Box - Concept 1 : 12V Powered USB 2.0 x2 / 24V Powered USB 2.0 x1 / RJ45 x 2 (Full Signal) - Concept 2 : 12V Powered USB 2.0 x1 / 24V Powered USB 2.0 x1 / USB 2.0 x 2 / RJ45 x 2 (Full Signal) - Concept 3 : 12V Powered USB 2.0 x1 / USB 2.0 x 4 / RJ45 x 2 (Full Signal) - Concept 4 : USB 2.0 x 6 / RJ45 x 2 (Full Signal) One option attachable at a time
LAN	Gigabit Ethernet x 1 (RJ-45)	Gigabit Ethernet x 1 (RJ-45)	Gigabit Ethernet x 1 (RJ-45)
Audio	Line-out(Stereo) x 1, 1W SPK(MONO) x1	Line-out(Stereo) x 1, 1W SPK(MONO) x1	Line-out(Stereo) x 1, 1W SPK(MONO) x1
Power DC-IN	4 Pin DIN Jack	4 Pin DIN Jack	4 Pin DIN Jack
Extension Slot	M.2 x 2 for WiFi/BT, SSD	M.2 x 2 for WiFi/BT, SSD	M.2 x 2 for WiFi/BT, SSD
Power	Power		
Power Supply	Adapter 12V, 5A (Nomarl) / 24V, 6.35A(EXT IO BOX Option)	Adapter 12V, 5A (Nomarl) / 24V, 6.35A(EXT IO BOX Option)	Adapter 12V, 5A (Nomarl) / 24V, 6.35A(EXT IO BOX Option)
Physical & Environmental	Physical & Environmental		
Operating Temperature	0 °C ~ 60 °C at 10% to 90% Humidity	0 °C ~ 60 °C at 10% to 90% Humidity	0 °C ~ 60 °C at 10% to 90% Humidity
Storage Temperature	-20 °C ~ 80 °C at 10% to 90% Humidity	-20 °C ~ 80 °C at 10% to 90% Humidity	-20 °C ~ 80 °C at 10% to 90% Humidity
Dimensions (W x H x D)	351 x 206 x 307.5(mm) 13.8 x 8.11 x 12.0(in)	351 x 206 x 307.5(mm) 13.8 x 8.11 x 12.0(in)	351 x 206 x 307.5(mm) 13.8 x 8.11 x 12.0(in)
Packing Dimensions (W x H x D)	435 x 485 x 165 (mm)	435 x 485 x 165 (mm)	435 x 485 x 165 (mm)
Net Weight	4.41kg	4.41kg	4.41kg
Packing Weight	5.5kg	5.5kg	5.5kg
Certification	KC, FCC, CE	KC, FCC, CE	KC, FCC, CE
Color	Dark Gray, White	Dark Gray, White	Dark Gray, White
Options & Peripherals	Options & Peripherals		
2nd Displays	9.7" (1024 x 768), 10.1" (1280X800), 15"(1024X768) LCD Display, Optional Touchscreen	9.7" (1024 x 768), 10.1" (1280X800), 15"(1024X768) LCD Display, Optional Touchscreen	9.7" (1024 x 768), 10.1" (1280X800), 15"(1024X768) LCD Display, Optional Touchscreen
Customer Display	VFD, 20 Columns x 2 Lines	VFD, 20 Columns x 2 Lines	VFD, 20 Columns x 2 Lines
External IO BOX	-	-	-
Storage	NVME M.2 128G	NVME M.2 128G	NVME M.2 128G

Magnetic Stripe Reader	Comply with ISO 7811, Support 1 & 2 & 3 Track	Comply with ISO 7811, Support 1 & 2 & 3 Track	Comply with ISO 7811, Support 1 & 2 & 3 Track
Smart Card Reader	EMV Level 1	EMV Level 1	EMV Level 1
Dallas	Dallas i-button Reader	Dallas i-button Reader	Dallas i-button Reader
Fingerprint	Yes	Yes	Yes
Wall Mount Kit	VESA-Compatible, 75 x 75(mm), 100 x 100(mm)	VESA-Compatible, 75 x 75(mm), 100 x 100(mm)	VESA-Compatible, 75 x 75(mm), 100 x 100(mm)
Serial Conversion Cable	RJ-45 to D-sub 9	RJ-45 to D-sub 9	RJ-45 to D-sub 9
Speaker	-	-	-
WiFi/BT	M.2 for WiFi/BT	M.2 for WiFi/BT	M.2 for WiFi/BT
TPM	Support	Support	Support

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