

PERKHIDMATAN SEWAAN PERALATAN ICT UNTUK KEGUNAAN MAJLIS BANDARAYA ISKANDAR PUTERI BAGI TEMPOH 36 BULAN

SPESIFIKASI TEKNIKAL

BIL.	BAHAGIAN	MUKA SURAT
A	KOMPUTER RIBA I7	2/1% P%
B	KOMPUTER RIBA – (SPESIFIKASI TINGGI)	3/1% P%
C	MACBOOK PRO	4/1% P%
D	KOMPUTER I7	5/1% P%
E	KOMPUTER I5	6/1% P%
F	TABLET	7/1% P%

BIL.	SPEKIFIKASI	YA	TIDAK	CATATAN																																				
A	KOMPUTER RIBA i7																																							
A.1	Lenovo Legion 5a Gen 11 atau yang setara <table><tr><td>Processor</td><td>AMD Ryzen™ AI 9 465 Processor (2.00 GHz up to 5.00 GHz)</td></tr><tr><td>Memory</td><td>32GB</td></tr><tr><td>Storage</td><td>1 TB SSD M.2 2242 PCIe Gen4 TLC</td></tr><tr><td>Graphic</td><td>NVIDIA® GeForce RTX™ 5060 Laptop GPU 8GB GDDR7</td></tr><tr><td>Display</td><td>15.3" WQXGA (2560 x 1600), OLED, Glare, Non-Touch, HDR 1000 True Black, 100%DCI-P3, 500 nits, 165Hz, Low Blue Light</td></tr><tr><td>Camera</td><td>5MP RGB+IR with Dual Microphone</td></tr><tr><td>OS</td><td>Windows 11 Pro</td></tr><tr><td>Audio</td><td>Stereo Speakers (Harman), Nahimic Audio</td></tr><tr><td>Connectivity</td><td>Wi-Fi 7 2x2 BE & Bluetooth® 5.4</td></tr><tr><td>Keyboard</td><td>24zone RGB Backlit, Eclipse Black - English (US)</td></tr><tr><td>Interface</td><td>2 x USB-C® (USB 4 40Gbps) with Power Delivery 3.0 (65W-100W) & DisplayPort 1.4</td></tr><tr><td></td><td>3 x USB-A (USB 5Gbps)</td></tr><tr><td></td><td>1x HDMI 2.1</td></tr><tr><td></td><td>1x Headphone / microphone combo jack</td></tr><tr><td></td><td>1x Ethernet (RJ-45)</td></tr><tr><td>Accessories</td><td>1x Lenovo 300 Wireless Compact Mouse</td></tr><tr><td></td><td>1x Lenovo Legion 16" Backpack</td></tr><tr><td>Warranty</td><td>3 Year Onsite Support</td></tr></table>	Processor	AMD Ryzen™ AI 9 465 Processor (2.00 GHz up to 5.00 GHz)	Memory	32GB	Storage	1 TB SSD M.2 2242 PCIe Gen4 TLC	Graphic	NVIDIA® GeForce RTX™ 5060 Laptop GPU 8GB GDDR7	Display	15.3" WQXGA (2560 x 1600), OLED, Glare, Non-Touch, HDR 1000 True Black, 100%DCI-P3, 500 nits, 165Hz, Low Blue Light	Camera	5MP RGB+IR with Dual Microphone	OS	Windows 11 Pro	Audio	Stereo Speakers (Harman), Nahimic Audio	Connectivity	Wi-Fi 7 2x2 BE & Bluetooth® 5.4	Keyboard	24zone RGB Backlit, Eclipse Black - English (US)	Interface	2 x USB-C® (USB 4 40Gbps) with Power Delivery 3.0 (65W-100W) & DisplayPort 1.4		3 x USB-A (USB 5Gbps)		1x HDMI 2.1		1x Headphone / microphone combo jack		1x Ethernet (RJ-45)	Accessories	1x Lenovo 300 Wireless Compact Mouse		1x Lenovo Legion 16" Backpack	Warranty	3 Year Onsite Support			
Processor	AMD Ryzen™ AI 9 465 Processor (2.00 GHz up to 5.00 GHz)																																							
Memory	32GB																																							
Storage	1 TB SSD M.2 2242 PCIe Gen4 TLC																																							
Graphic	NVIDIA® GeForce RTX™ 5060 Laptop GPU 8GB GDDR7																																							
Display	15.3" WQXGA (2560 x 1600), OLED, Glare, Non-Touch, HDR 1000 True Black, 100%DCI-P3, 500 nits, 165Hz, Low Blue Light																																							
Camera	5MP RGB+IR with Dual Microphone																																							
OS	Windows 11 Pro																																							
Audio	Stereo Speakers (Harman), Nahimic Audio																																							
Connectivity	Wi-Fi 7 2x2 BE & Bluetooth® 5.4																																							
Keyboard	24zone RGB Backlit, Eclipse Black - English (US)																																							
Interface	2 x USB-C® (USB 4 40Gbps) with Power Delivery 3.0 (65W-100W) & DisplayPort 1.4																																							
	3 x USB-A (USB 5Gbps)																																							
	1x HDMI 2.1																																							
	1x Headphone / microphone combo jack																																							
	1x Ethernet (RJ-45)																																							
Accessories	1x Lenovo 300 Wireless Compact Mouse																																							
	1x Lenovo Legion 16" Backpack																																							
Warranty	3 Year Onsite Support																																							
A.2	Lenovo IdeaPad Pro 5a Gen 11 atau yang setara <table><tr><td>Processor</td><td>AMD Ryzen™ AI 7 450 Processor</td></tr><tr><td>Memory</td><td>32GB</td></tr><tr><td>Storage</td><td>1TB M.2 2280 PCIe 4.0x4 NVMe SSD</td></tr><tr><td>Graphic</td><td>NVIDIA GeForce RTX 4060</td></tr><tr><td>Display</td><td>16" 2.8K (2880 x 1800), OLED, Glare, Non-Touch, HDR 1000 True Black, 100%DCI-P3, 500 nits, 120Hz</td></tr><tr><td>Camera</td><td>1080P FHD IR Hybrid with Dual Microphone</td></tr><tr><td>OS</td><td>Windows 11 Pro</td></tr><tr><td>Audio</td><td>Stereo speakers, 2W x2, Dolby Atmos®</td></tr><tr><td>Connectivity</td><td>Wi-Fi 7 2x2 BE & Bluetooth® 5.4</td></tr><tr><td>Keyboard</td><td>Backlit, Luna Grey - English (US)</td></tr><tr><td>Interface</td><td>2 x USB-C (USB4, 20+Gbps)</td></tr><tr><td></td><td>2 x USB-A (USB 10Gbps)</td></tr><tr><td></td><td>1x HDMI 2.1</td></tr><tr><td></td><td>1x Headphone / microphone combo jack</td></tr><tr><td></td><td>1x Card reader</td></tr><tr><td>Accessories</td><td>Lenovo Yoga Bluetooth Silent Mouse</td></tr><tr><td></td><td>Lenovo 15.6 Laptop Casual Backpack</td></tr></table>	Processor	AMD Ryzen™ AI 7 450 Processor	Memory	32GB	Storage	1TB M.2 2280 PCIe 4.0x4 NVMe SSD	Graphic	NVIDIA GeForce RTX 4060	Display	16" 2.8K (2880 x 1800), OLED, Glare, Non-Touch, HDR 1000 True Black, 100%DCI-P3, 500 nits, 120Hz	Camera	1080P FHD IR Hybrid with Dual Microphone	OS	Windows 11 Pro	Audio	Stereo speakers, 2W x2, Dolby Atmos®	Connectivity	Wi-Fi 7 2x2 BE & Bluetooth® 5.4	Keyboard	Backlit, Luna Grey - English (US)	Interface	2 x USB-C (USB4, 20+Gbps)		2 x USB-A (USB 10Gbps)		1x HDMI 2.1		1x Headphone / microphone combo jack		1x Card reader	Accessories	Lenovo Yoga Bluetooth Silent Mouse		Lenovo 15.6 Laptop Casual Backpack					
Processor	AMD Ryzen™ AI 7 450 Processor																																							
Memory	32GB																																							
Storage	1TB M.2 2280 PCIe 4.0x4 NVMe SSD																																							
Graphic	NVIDIA GeForce RTX 4060																																							
Display	16" 2.8K (2880 x 1800), OLED, Glare, Non-Touch, HDR 1000 True Black, 100%DCI-P3, 500 nits, 120Hz																																							
Camera	1080P FHD IR Hybrid with Dual Microphone																																							
OS	Windows 11 Pro																																							
Audio	Stereo speakers, 2W x2, Dolby Atmos®																																							
Connectivity	Wi-Fi 7 2x2 BE & Bluetooth® 5.4																																							
Keyboard	Backlit, Luna Grey - English (US)																																							
Interface	2 x USB-C (USB4, 20+Gbps)																																							
	2 x USB-A (USB 10Gbps)																																							
	1x HDMI 2.1																																							
	1x Headphone / microphone combo jack																																							
	1x Card reader																																							
Accessories	Lenovo Yoga Bluetooth Silent Mouse																																							
	Lenovo 15.6 Laptop Casual Backpack																																							

BIL.	SPESIFIKASI	YA	TIDAK	CATATAN																																
B	KOMPUTER RIBA – (SPESIFIKASI TINGGI)																																			
B.1	MSI Stealth A16 AI+ A3XWHG 039 atau yang setara <table><tr><td>Processor</td><td>AMD Ryzen™ AI 9 HX 370 Processor</td></tr><tr><td>OS</td><td>Windows 11 Pro</td></tr><tr><td>Display</td><td>16" QHD+(2560x1600), 240Hz Refresh Rate, OLED, VESA DisplayHDR™ True Black 600 Certified, 100% DCI-P3(Typical)</td></tr><tr><td>Graphic</td><td>NVIDIA® GeForce RTX™ 5070 Ti Laptop GPU</td></tr><tr><td>Memory</td><td>32GB, On board LPDDR5x</td></tr><tr><td>Storage</td><td>2TB*1 NVMe SSD PCIe Gen4 1x M.2 SSD slot (NVMe PCIe Gen4)</td></tr><tr><td>Camera</td><td>IR FHD type (30fps@1080p) with HDR 3D Noise Reduction+ (3DNR+)</td></tr><tr><td>Keyboard</td><td>Per-Key RGB Gaming Keyboard by SteelSeries with Copilot Key</td></tr><tr><td>Connectivity</td><td>Wi-Fi 7 Bluetooth v5.4</td></tr><tr><td>Audio</td><td>2x 2W Audio Speaker 4x 2W Audio Woofer Sound by Dynaudio, Nahimic 3 Audio Enhancer, Hi-Res Audio Ready Array Microphone</td></tr><tr><td>Audio Jack</td><td>1x Mic-in/Headphone-out Combo Jack</td></tr><tr><td>I/O Ports</td><td>2x Type-A USB3.2 Gen2 1x Type-C (USB4® / DisplayPort™/ Power Delivery 3.0/ Thunderbolt™ 4 compatible)</td></tr><tr><td>Video Port</td><td>1x HDMI™ 2.1 (8K @ 60Hz / 4K @ 120Hz)</td></tr><tr><td>Sensor</td><td>1x Fingerprint</td></tr><tr><td>Accessories</td><td>MSI Stealth Agent Backpack, Wireless Mouse</td></tr><tr><td>Colour</td><td>Core Black</td></tr></table>	Processor	AMD Ryzen™ AI 9 HX 370 Processor	OS	Windows 11 Pro	Display	16" QHD+(2560x1600), 240Hz Refresh Rate, OLED, VESA DisplayHDR™ True Black 600 Certified, 100% DCI-P3(Typical)	Graphic	NVIDIA® GeForce RTX™ 5070 Ti Laptop GPU	Memory	32GB, On board LPDDR5x	Storage	2TB*1 NVMe SSD PCIe Gen4 1x M.2 SSD slot (NVMe PCIe Gen4)	Camera	IR FHD type (30fps@1080p) with HDR 3D Noise Reduction+ (3DNR+)	Keyboard	Per-Key RGB Gaming Keyboard by SteelSeries with Copilot Key	Connectivity	Wi-Fi 7 Bluetooth v5.4	Audio	2x 2W Audio Speaker 4x 2W Audio Woofer Sound by Dynaudio, Nahimic 3 Audio Enhancer, Hi-Res Audio Ready Array Microphone	Audio Jack	1x Mic-in/Headphone-out Combo Jack	I/O Ports	2x Type-A USB3.2 Gen2 1x Type-C (USB4® / DisplayPort™/ Power Delivery 3.0/ Thunderbolt™ 4 compatible)	Video Port	1x HDMI™ 2.1 (8K @ 60Hz / 4K @ 120Hz)	Sensor	1x Fingerprint	Accessories	MSI Stealth Agent Backpack, Wireless Mouse	Colour	Core Black			
Processor	AMD Ryzen™ AI 9 HX 370 Processor																																			
OS	Windows 11 Pro																																			
Display	16" QHD+(2560x1600), 240Hz Refresh Rate, OLED, VESA DisplayHDR™ True Black 600 Certified, 100% DCI-P3(Typical)																																			
Graphic	NVIDIA® GeForce RTX™ 5070 Ti Laptop GPU																																			
Memory	32GB, On board LPDDR5x																																			
Storage	2TB*1 NVMe SSD PCIe Gen4 1x M.2 SSD slot (NVMe PCIe Gen4)																																			
Camera	IR FHD type (30fps@1080p) with HDR 3D Noise Reduction+ (3DNR+)																																			
Keyboard	Per-Key RGB Gaming Keyboard by SteelSeries with Copilot Key																																			
Connectivity	Wi-Fi 7 Bluetooth v5.4																																			
Audio	2x 2W Audio Speaker 4x 2W Audio Woofer Sound by Dynaudio, Nahimic 3 Audio Enhancer, Hi-Res Audio Ready Array Microphone																																			
Audio Jack	1x Mic-in/Headphone-out Combo Jack																																			
I/O Ports	2x Type-A USB3.2 Gen2 1x Type-C (USB4® / DisplayPort™/ Power Delivery 3.0/ Thunderbolt™ 4 compatible)																																			
Video Port	1x HDMI™ 2.1 (8K @ 60Hz / 4K @ 120Hz)																																			
Sensor	1x Fingerprint																																			
Accessories	MSI Stealth Agent Backpack, Wireless Mouse																																			
Colour	Core Black																																			

BIL.	SPESIFIKASI	YA	TIDAK	CATATAN																																
C	MACBOOK PRO																																			
C.1	16-inch MacBook Pro with M5 Pro chip atau yang setara <table><tr><td>OS</td><td>MacOS</td></tr><tr><td>Model</td><td>16-Inch Macbook Pro</td></tr><tr><td>Processor</td><td>Apple M4 Max chip with 14?core CPU, 32?core GPU and 16?core Neural Engine</td></tr><tr><td>Display</td><td>16-inch Liquid Retina XDR display</td></tr><tr><td>Memory</td><td>36GB unified memory</td></tr><tr><td>Storage</td><td>1TB SSD storage</td></tr><tr><td>Camera</td><td>12MP Center Stage camera with support for Desk View 1080p HD video recording</td></tr><tr><td>Keyboard</td><td>Backlit Magic Keyboard with Touch ID - US English</td></tr><tr><td>Connectivity</td><td>Wi-Fi Wi-Fi 6E (802.11ax) Bluetooth Bluetooth 5.3</td></tr><tr><td>Audio</td><td>High-fidelity six-speaker sound system with force-cancelling woofers Wide stereo sound</td></tr><tr><td>Audio Jack</td><td>3.5mm headphone jack with advanced support for high-impedance headphones</td></tr><tr><td>I/O Ports</td><td>3x Thunderbolt 5 ports, 1x HDMI port, 1x SDXC card slot, 1x Headphone jack, 1x MagSafe 3 port</td></tr><tr><td>Video Port</td><td>1x HDMI port</td></tr><tr><td>Battery</td><td>100-watt-hour lithium-polymer battery</td></tr><tr><td>AC Adapter</td><td>140W USB-C Power Adapter</td></tr><tr><td>Accessories</td><td>USB-C to MagSafe 3 Cable (2m) Polishing cloth</td></tr></table>	OS	MacOS	Model	16-Inch Macbook Pro	Processor	Apple M4 Max chip with 14?core CPU, 32?core GPU and 16?core Neural Engine	Display	16-inch Liquid Retina XDR display	Memory	36GB unified memory	Storage	1TB SSD storage	Camera	12MP Center Stage camera with support for Desk View 1080p HD video recording	Keyboard	Backlit Magic Keyboard with Touch ID - US English	Connectivity	Wi-Fi Wi-Fi 6E (802.11ax) Bluetooth Bluetooth 5.3	Audio	High-fidelity six-speaker sound system with force-cancelling woofers Wide stereo sound	Audio Jack	3.5mm headphone jack with advanced support for high-impedance headphones	I/O Ports	3x Thunderbolt 5 ports, 1x HDMI port, 1x SDXC card slot, 1x Headphone jack, 1x MagSafe 3 port	Video Port	1x HDMI port	Battery	100-watt-hour lithium-polymer battery	AC Adapter	140W USB-C Power Adapter	Accessories	USB-C to MagSafe 3 Cable (2m) Polishing cloth			
OS	MacOS																																			
Model	16-Inch Macbook Pro																																			
Processor	Apple M4 Max chip with 14?core CPU, 32?core GPU and 16?core Neural Engine																																			
Display	16-inch Liquid Retina XDR display																																			
Memory	36GB unified memory																																			
Storage	1TB SSD storage																																			
Camera	12MP Center Stage camera with support for Desk View 1080p HD video recording																																			
Keyboard	Backlit Magic Keyboard with Touch ID - US English																																			
Connectivity	Wi-Fi Wi-Fi 6E (802.11ax) Bluetooth Bluetooth 5.3																																			
Audio	High-fidelity six-speaker sound system with force-cancelling woofers Wide stereo sound																																			
Audio Jack	3.5mm headphone jack with advanced support for high-impedance headphones																																			
I/O Ports	3x Thunderbolt 5 ports, 1x HDMI port, 1x SDXC card slot, 1x Headphone jack, 1x MagSafe 3 port																																			
Video Port	1x HDMI port																																			
Battery	100-watt-hour lithium-polymer battery																																			
AC Adapter	140W USB-C Power Adapter																																			
Accessories	USB-C to MagSafe 3 Cable (2m) Polishing cloth																																			

BIL.	SPEKIFIKASI	YA	TIDAK	CATATAN																																																												
D	KOMPUTER I7																																																															
D.1	ThinkCentre M75q Gen 5 (Ryzen 7) atau yang setara <table><tr><td>Processor</td><td>AMD Ryzen™ 7 PRO 8700GE Processor</td></tr><tr><td>Memory</td><td>32GB</td></tr><tr><td>Storage</td><td>512 GB SSD M.2 2280 PCIe Gen4 Performance TLC Opal</td></tr><tr><td>Second Storage</td><td>512 GB SSD M.2 2280 PCIe Gen4 TLC Opal</td></tr><tr><td>Graphic</td><td>Integrated Graphics</td></tr><tr><td>OS</td><td>Windows 11 Pro</td></tr><tr><td>Audio</td><td>Integrated high-definition</td></tr><tr><td>Connectivity</td><td>Wi-Fi 6E RZ616 2x2 AX & Bluetooth® 5.3</td></tr><tr><td></td><td>1x RJ45 Gigabit Ethernet</td></tr><tr><td>Interface</td><td>1x HDMI 1.4</td></tr><tr><td>(Rear)</td><td>1x VGA Port</td></tr><tr><td></td><td>1x Displayport 1.4</td></tr><tr><td></td><td>1x 7.1 channel audio (3 ports)</td></tr><tr><td></td><td>3x USB 2.0 Type-A</td></tr><tr><td></td><td>2x USB 3.2 Gen 1 Type-A</td></tr><tr><td></td><td>1x Headphone</td></tr><tr><td>(Front)</td><td>1x 3.5 mm combo audio jack</td></tr><tr><td></td><td>2x USB 2.0 Type-A</td></tr><tr><td></td><td>2x USB 3.2 Gen 2 Type-A</td></tr><tr><td></td><td>1x USB 3.2 Gen 2*2 Type-C</td></tr><tr><td></td><td>1x 2 in 1 card reader SD / MMC</td></tr><tr><td>Keyboard & Mouse</td><td>Lenovo Essential Wireless Combo Keyboard & Mouse Gen2 Black-US_English</td></tr><tr><td>Monitor</td><td>ThinkVision T27- 40 27" Monitor</td></tr><tr><td></td><td>Panel Size (inch) : 27</td></tr><tr><td></td><td>Backlight Type : LED</td></tr><tr><td></td><td>Panel Type : IPS</td></tr><tr><td></td><td>Contrast Ratio : 1500:1</td></tr><tr><td></td><td>Response Time : 4 ms (Extreme Mode)</td></tr><tr><td></td><td>Refresh Rate (Max) : 120Hz</td></tr><tr><td></td><td>Port : 1 x VGA, 1 x HDMI 1.4, 1 x DP 1.2, 1 x USB-B, 3 x USB-A, 1 x USB-C</td></tr></table>	Processor	AMD Ryzen™ 7 PRO 8700GE Processor	Memory	32GB	Storage	512 GB SSD M.2 2280 PCIe Gen4 Performance TLC Opal	Second Storage	512 GB SSD M.2 2280 PCIe Gen4 TLC Opal	Graphic	Integrated Graphics	OS	Windows 11 Pro	Audio	Integrated high-definition	Connectivity	Wi-Fi 6E RZ616 2x2 AX & Bluetooth® 5.3		1x RJ45 Gigabit Ethernet	Interface	1x HDMI 1.4	(Rear)	1x VGA Port		1x Displayport 1.4		1x 7.1 channel audio (3 ports)		3x USB 2.0 Type-A		2x USB 3.2 Gen 1 Type-A		1x Headphone	(Front)	1x 3.5 mm combo audio jack		2x USB 2.0 Type-A		2x USB 3.2 Gen 2 Type-A		1x USB 3.2 Gen 2*2 Type-C		1x 2 in 1 card reader SD / MMC	Keyboard & Mouse	Lenovo Essential Wireless Combo Keyboard & Mouse Gen2 Black-US_English	Monitor	ThinkVision T27- 40 27" Monitor		Panel Size (inch) : 27		Backlight Type : LED		Panel Type : IPS		Contrast Ratio : 1500:1		Response Time : 4 ms (Extreme Mode)		Refresh Rate (Max) : 120Hz		Port : 1 x VGA, 1 x HDMI 1.4, 1 x DP 1.2, 1 x USB-B, 3 x USB-A, 1 x USB-C			
Processor	AMD Ryzen™ 7 PRO 8700GE Processor																																																															
Memory	32GB																																																															
Storage	512 GB SSD M.2 2280 PCIe Gen4 Performance TLC Opal																																																															
Second Storage	512 GB SSD M.2 2280 PCIe Gen4 TLC Opal																																																															
Graphic	Integrated Graphics																																																															
OS	Windows 11 Pro																																																															
Audio	Integrated high-definition																																																															
Connectivity	Wi-Fi 6E RZ616 2x2 AX & Bluetooth® 5.3																																																															
	1x RJ45 Gigabit Ethernet																																																															
Interface	1x HDMI 1.4																																																															
(Rear)	1x VGA Port																																																															
	1x Displayport 1.4																																																															
	1x 7.1 channel audio (3 ports)																																																															
	3x USB 2.0 Type-A																																																															
	2x USB 3.2 Gen 1 Type-A																																																															
	1x Headphone																																																															
(Front)	1x 3.5 mm combo audio jack																																																															
	2x USB 2.0 Type-A																																																															
	2x USB 3.2 Gen 2 Type-A																																																															
	1x USB 3.2 Gen 2*2 Type-C																																																															
	1x 2 in 1 card reader SD / MMC																																																															
Keyboard & Mouse	Lenovo Essential Wireless Combo Keyboard & Mouse Gen2 Black-US_English																																																															
Monitor	ThinkVision T27- 40 27" Monitor																																																															
	Panel Size (inch) : 27																																																															
	Backlight Type : LED																																																															
	Panel Type : IPS																																																															
	Contrast Ratio : 1500:1																																																															
	Response Time : 4 ms (Extreme Mode)																																																															
	Refresh Rate (Max) : 120Hz																																																															
	Port : 1 x VGA, 1 x HDMI 1.4, 1 x DP 1.2, 1 x USB-B, 3 x USB-A, 1 x USB-C																																																															
D.2	Apple iMac atau yang setara <table><tr><th>ITEM</th><th>MINIMUM SPECIFICATION</th></tr><tr><td>Model</td><td>Apple iMac (M4, 24-inch)</td></tr><tr><td>Processor (CPU)</td><td>Apple M4 Chip with 10-core CPU</td></tr><tr><td>Graphics (GPU)</td><td>Integrated 10-core GPU</td></tr><tr><td>Neural Engine</td><td>16-core Neural Engine for AI and machine learning processing</td></tr><tr><td>Memory</td><td>24GB Unified Memory</td></tr><tr><td>Storage</td><td>514GB SSD (high-speed NVMe-based storage)</td></tr><tr><td>Display</td><td>24-inch 4.5K Retina Display (approx. 4480 × 2520 resolution), P3 wide color gamut, True Tone technology</td></tr><tr><td>Glass Type</td><td>Standard glass</td></tr><tr><td>Camera</td><td>12MP Center Stage camera with auto framing</td></tr><tr><td>Audio System</td><td>High-fidelity six-speaker system with Spatial Audio support</td></tr><tr><td>Microphone</td><td>Studio-quality three-microphone array</td></tr><tr><td>Ports</td><td>4 × Thunderbolt 4 (USB-C), 1 × 3.5mm headphone jack</td></tr><tr><td>Networking</td><td>Gigabit Ethernet (via power adapter)</td></tr><tr><td>Wireless Connectivity</td><td>Wi-Fi 6E, Bluetooth 5.3</td></tr><tr><td>External Display Support</td><td>Supports up to two external displays</td></tr><tr><td>Input Devices</td><td>Magic Mouse (Silver)</td></tr><tr><td>Keyboard</td><td>Magic Keyboard with Touch ID (US English, Silver)</td></tr><tr><td>Design</td><td>All-in-one desktop with aluminium enclosure (Silver finish)</td></tr><tr><td>Operating System</td><td>macOS</td></tr><tr><td>Stand</td><td>Adjustable tilt stand</td></tr><tr><td>Security</td><td>Secure Enclave, Touch ID authentication</td></tr><tr><td>Included Accessories</td><td>Power adapter with Ethernet, USB-C charging cable</td></tr><tr><td>Warranty</td><td>AppleCare+ extended warranty coverage</td></tr></table>	ITEM	MINIMUM SPECIFICATION	Model	Apple iMac (M4, 24-inch)	Processor (CPU)	Apple M4 Chip with 10-core CPU	Graphics (GPU)	Integrated 10-core GPU	Neural Engine	16-core Neural Engine for AI and machine learning processing	Memory	24GB Unified Memory	Storage	514GB SSD (high-speed NVMe-based storage)	Display	24-inch 4.5K Retina Display (approx. 4480 × 2520 resolution), P3 wide color gamut, True Tone technology	Glass Type	Standard glass	Camera	12MP Center Stage camera with auto framing	Audio System	High-fidelity six-speaker system with Spatial Audio support	Microphone	Studio-quality three-microphone array	Ports	4 × Thunderbolt 4 (USB-C), 1 × 3.5mm headphone jack	Networking	Gigabit Ethernet (via power adapter)	Wireless Connectivity	Wi-Fi 6E, Bluetooth 5.3	External Display Support	Supports up to two external displays	Input Devices	Magic Mouse (Silver)	Keyboard	Magic Keyboard with Touch ID (US English, Silver)	Design	All-in-one desktop with aluminium enclosure (Silver finish)	Operating System	macOS	Stand	Adjustable tilt stand	Security	Secure Enclave, Touch ID authentication	Included Accessories	Power adapter with Ethernet, USB-C charging cable	Warranty	AppleCare+ extended warranty coverage															
ITEM	MINIMUM SPECIFICATION																																																															
Model	Apple iMac (M4, 24-inch)																																																															
Processor (CPU)	Apple M4 Chip with 10-core CPU																																																															
Graphics (GPU)	Integrated 10-core GPU																																																															
Neural Engine	16-core Neural Engine for AI and machine learning processing																																																															
Memory	24GB Unified Memory																																																															
Storage	514GB SSD (high-speed NVMe-based storage)																																																															
Display	24-inch 4.5K Retina Display (approx. 4480 × 2520 resolution), P3 wide color gamut, True Tone technology																																																															
Glass Type	Standard glass																																																															
Camera	12MP Center Stage camera with auto framing																																																															
Audio System	High-fidelity six-speaker system with Spatial Audio support																																																															
Microphone	Studio-quality three-microphone array																																																															
Ports	4 × Thunderbolt 4 (USB-C), 1 × 3.5mm headphone jack																																																															
Networking	Gigabit Ethernet (via power adapter)																																																															
Wireless Connectivity	Wi-Fi 6E, Bluetooth 5.3																																																															
External Display Support	Supports up to two external displays																																																															
Input Devices	Magic Mouse (Silver)																																																															
Keyboard	Magic Keyboard with Touch ID (US English, Silver)																																																															
Design	All-in-one desktop with aluminium enclosure (Silver finish)																																																															
Operating System	macOS																																																															
Stand	Adjustable tilt stand																																																															
Security	Secure Enclave, Touch ID authentication																																																															
Included Accessories	Power adapter with Ethernet, USB-C charging cable																																																															
Warranty	AppleCare+ extended warranty coverage																																																															

BIL.	SPESIFIKASI	YA	TIDAK	CATATAN																																																								
E	KOMPUTER I5																																																											
E.1	ThinkCentre M75q Gen 5 (Ryzen 5) atau yang setara <table><tr><td>Processor</td><td>AMD Ryzen™ 5 8600GE Processor</td></tr><tr><td>Memory</td><td>32GB</td></tr><tr><td>Storage</td><td>512 GB SSD M.2 2280 PCIe Gen4 Performance TLC Opal</td></tr><tr><td>Graphic</td><td>Integrated Graphics</td></tr><tr><td>OS</td><td>Windows 11 Pro</td></tr><tr><td>Audio</td><td>Integrated high-definition</td></tr><tr><td>Connectivity</td><td>Wi-Fi 6E RZ616 2x2 AX & Bluetooth® 5.3</td></tr><tr><td>Interface</td><td>1x RJ45 Gigabit Ethernet</td></tr><tr><td>(Rear)</td><td>1x HDMI 1.4</td></tr><tr><td></td><td>1x VGA Port</td></tr><tr><td></td><td>1x Displayport 1.4</td></tr><tr><td></td><td>1x 7.1 channel audio (3 ports)</td></tr><tr><td></td><td>3x USB 2.0 Type-A</td></tr><tr><td></td><td>2x USB 3.2 Gen 1 Type-A</td></tr><tr><td></td><td>1x Headphone</td></tr><tr><td>(Front)</td><td>1x 3.5 mm combo audio jack</td></tr><tr><td></td><td>2x USB 2.0 Type-A</td></tr><tr><td></td><td>2x USB 3.2 Gen 2 Type-A</td></tr><tr><td></td><td>1x USB 3.2 Gen 2*2 Type-C</td></tr><tr><td></td><td>1x 2 in 1 card reader SD / MMC</td></tr><tr><td>Keyboard & Mouse</td><td>Lenovo Essential Wireless Combo Keyboard & Mouse Gen2 Black-US_English</td></tr><tr><td>Monitor</td><td>ThinkVision T27- 40 27" Monitor</td></tr><tr><td></td><td>Panel Size (inch) : 27</td></tr><tr><td></td><td>Backlight Type : LED</td></tr><tr><td></td><td>Panel Type : IPS</td></tr><tr><td></td><td>Response Time : 4 ms (Extreme Mode)</td></tr><tr><td></td><td>Refresh Rate (Max) : 120Hz</td></tr><tr><td></td><td>Port : 1 x VGA, 1 x HDMI 1.4, 1 x DP 1.2, 1 x USB-B, 3 x USB-A, 1 x USB-C</td></tr></table>	Processor	AMD Ryzen™ 5 8600GE Processor	Memory	32GB	Storage	512 GB SSD M.2 2280 PCIe Gen4 Performance TLC Opal	Graphic	Integrated Graphics	OS	Windows 11 Pro	Audio	Integrated high-definition	Connectivity	Wi-Fi 6E RZ616 2x2 AX & Bluetooth® 5.3	Interface	1x RJ45 Gigabit Ethernet	(Rear)	1x HDMI 1.4		1x VGA Port		1x Displayport 1.4		1x 7.1 channel audio (3 ports)		3x USB 2.0 Type-A		2x USB 3.2 Gen 1 Type-A		1x Headphone	(Front)	1x 3.5 mm combo audio jack		2x USB 2.0 Type-A		2x USB 3.2 Gen 2 Type-A		1x USB 3.2 Gen 2*2 Type-C		1x 2 in 1 card reader SD / MMC	Keyboard & Mouse	Lenovo Essential Wireless Combo Keyboard & Mouse Gen2 Black-US_English	Monitor	ThinkVision T27- 40 27" Monitor		Panel Size (inch) : 27		Backlight Type : LED		Panel Type : IPS		Response Time : 4 ms (Extreme Mode)		Refresh Rate (Max) : 120Hz		Port : 1 x VGA, 1 x HDMI 1.4, 1 x DP 1.2, 1 x USB-B, 3 x USB-A, 1 x USB-C			
Processor	AMD Ryzen™ 5 8600GE Processor																																																											
Memory	32GB																																																											
Storage	512 GB SSD M.2 2280 PCIe Gen4 Performance TLC Opal																																																											
Graphic	Integrated Graphics																																																											
OS	Windows 11 Pro																																																											
Audio	Integrated high-definition																																																											
Connectivity	Wi-Fi 6E RZ616 2x2 AX & Bluetooth® 5.3																																																											
Interface	1x RJ45 Gigabit Ethernet																																																											
(Rear)	1x HDMI 1.4																																																											
	1x VGA Port																																																											
	1x Displayport 1.4																																																											
	1x 7.1 channel audio (3 ports)																																																											
	3x USB 2.0 Type-A																																																											
	2x USB 3.2 Gen 1 Type-A																																																											
	1x Headphone																																																											
(Front)	1x 3.5 mm combo audio jack																																																											
	2x USB 2.0 Type-A																																																											
	2x USB 3.2 Gen 2 Type-A																																																											
	1x USB 3.2 Gen 2*2 Type-C																																																											
	1x 2 in 1 card reader SD / MMC																																																											
Keyboard & Mouse	Lenovo Essential Wireless Combo Keyboard & Mouse Gen2 Black-US_English																																																											
Monitor	ThinkVision T27- 40 27" Monitor																																																											
	Panel Size (inch) : 27																																																											
	Backlight Type : LED																																																											
	Panel Type : IPS																																																											
	Response Time : 4 ms (Extreme Mode)																																																											
	Refresh Rate (Max) : 120Hz																																																											
	Port : 1 x VGA, 1 x HDMI 1.4, 1 x DP 1.2, 1 x USB-B, 3 x USB-A, 1 x USB-C																																																											

BIL.	SPESIFIKASI	YA	TIDAK	CATATAN																																								
F	TABLET																																											
F.1	iPad Pro 13-inch atau yang setara <table><tr><td>Storage Capacity</td><td>256GB</td></tr><tr><td>Processor</td><td>Apple M5 Chip</td></tr><tr><td>Neural Engine</td><td>16-core Neural Engine</td></tr><tr><td>OS</td><td>iPadOS</td></tr><tr><td>RAM</td><td>12GB</td></tr><tr><td>Connectivity</td><td>WiFi 7 + Bluetooth 6</td></tr><tr><td>Display</td><td>13-inch Ultra Retina XDR</td></tr><tr><td>Camera</td><td>12MP Wide Camera , 12MP Ultra Wide</td></tr><tr><td>Sensors</td><td>LiDAR Scanner, Gyroscope, Accelerometer, Barometer ([Apple][2])</td></tr><tr><td>Included</td><td>Apple Pencil Pro Screen Protector</td></tr></table>	Storage Capacity	256GB	Processor	Apple M5 Chip	Neural Engine	16-core Neural Engine	OS	iPadOS	RAM	12GB	Connectivity	WiFi 7 + Bluetooth 6	Display	13-inch Ultra Retina XDR	Camera	12MP Wide Camera , 12MP Ultra Wide	Sensors	LiDAR Scanner, Gyroscope, Accelerometer, Barometer ([Apple][2])	Included	Apple Pencil Pro Screen Protector																							
Storage Capacity	256GB																																											
Processor	Apple M5 Chip																																											
Neural Engine	16-core Neural Engine																																											
OS	iPadOS																																											
RAM	12GB																																											
Connectivity	WiFi 7 + Bluetooth 6																																											
Display	13-inch Ultra Retina XDR																																											
Camera	12MP Wide Camera , 12MP Ultra Wide																																											
Sensors	LiDAR Scanner, Gyroscope, Accelerometer, Barometer ([Apple][2])																																											
Included	Apple Pencil Pro Screen Protector																																											
F.2	Apple iPad Air 13-inch atau yang setara <table><tr><td>Storage Capacity</td><td>1TB</td></tr><tr><td>Connectivity</td><td>WiFi + Cellular (5G supported)</td></tr><tr><td>Processor</td><td>Apple M4 Chip (8-core CPU, 9-core GPU, 16-core Neural Engine)</td></tr><tr><td>Operating System</td><td>iPadOS</td></tr><tr><td>Display</td><td>13-inch Liquid Retina Display</td></tr><tr><td>Rear Camera</td><td>12MP Wide Camera, f/1.8 aperture</td></tr><tr><td>Front Camera</td><td>12MP Ultra Wide</td></tr><tr><td>Battery Life</td><td>Up to 10 hours usage</td></tr><tr><td>Security</td><td>Touch ID</td></tr><tr><td>Included</td><td>Apple Pencil Pro Magic Keyboard for Ipad Air (13") Screen Protector</td></tr></table>	Storage Capacity	1TB	Connectivity	WiFi + Cellular (5G supported)	Processor	Apple M4 Chip (8-core CPU, 9-core GPU, 16-core Neural Engine)	Operating System	iPadOS	Display	13-inch Liquid Retina Display	Rear Camera	12MP Wide Camera, f/1.8 aperture	Front Camera	12MP Ultra Wide	Battery Life	Up to 10 hours usage	Security	Touch ID	Included	Apple Pencil Pro Magic Keyboard for Ipad Air (13") Screen Protector																							
Storage Capacity	1TB																																											
Connectivity	WiFi + Cellular (5G supported)																																											
Processor	Apple M4 Chip (8-core CPU, 9-core GPU, 16-core Neural Engine)																																											
Operating System	iPadOS																																											
Display	13-inch Liquid Retina Display																																											
Rear Camera	12MP Wide Camera, f/1.8 aperture																																											
Front Camera	12MP Ultra Wide																																											
Battery Life	Up to 10 hours usage																																											
Security	Touch ID																																											
Included	Apple Pencil Pro Magic Keyboard for Ipad Air (13") Screen Protector																																											
F.3	Xiaomi Pad 8 Pro atau yang setara <table><tr><td>Display</td><td>11.2-inch 3.2K IPS LCD</td></tr><tr><td>Resolution</td><td>3200 × 2136 pixels</td></tr><tr><td>Processor</td><td>Snapdragon 8 Elite (3nm)</td></tr><tr><td>RAM</td><td>12GB LPDDR5X</td></tr><tr><td>Storage</td><td>512GB UFS 4.1</td></tr><tr><td>Operating System</td><td>Android 16 with HyperOS 3</td></tr><tr><td>Camera</td><td>50MP with PDAF Rear , 32MP ultra-wide Front</td></tr><tr><td>Connectivity</td><td>Wi-Fi 7, Bluetooth 6.0</td></tr><tr><td>Battery</td><td>9,200mAh</td></tr><tr><td>Included</td><td>Pen Pro Keyboard Screen Protector</td></tr><tr><td>Storage Capacity</td><td>1TB</td></tr><tr><td>Connectivity</td><td>WiFi + Cellular (5G supported)</td></tr><tr><td>Processor</td><td>Apple M4 Chip (8-core CPU, 9-core GPU, 16-core Neural Engine)</td></tr><tr><td>Operating System</td><td>iPadOS</td></tr><tr><td>Display</td><td>13-inch Liquid Retina Display</td></tr><tr><td>Rear Camera</td><td>12MP Wide Camera, f/1.8 aperture</td></tr><tr><td>Front Camera</td><td>12MP Ultra Wide</td></tr><tr><td>Battery Life</td><td>Up to 10 hours usage</td></tr><tr><td>Security</td><td>Touch ID</td></tr><tr><td>Included</td><td>Apple Pencil Pro Magic Keyboard for Ipad Air (13") Screen Protector</td></tr></table>	Display	11.2-inch 3.2K IPS LCD	Resolution	3200 × 2136 pixels	Processor	Snapdragon 8 Elite (3nm)	RAM	12GB LPDDR5X	Storage	512GB UFS 4.1	Operating System	Android 16 with HyperOS 3	Camera	50MP with PDAF Rear , 32MP ultra-wide Front	Connectivity	Wi-Fi 7, Bluetooth 6.0	Battery	9,200mAh	Included	Pen Pro Keyboard Screen Protector	Storage Capacity	1TB	Connectivity	WiFi + Cellular (5G supported)	Processor	Apple M4 Chip (8-core CPU, 9-core GPU, 16-core Neural Engine)	Operating System	iPadOS	Display	13-inch Liquid Retina Display	Rear Camera	12MP Wide Camera, f/1.8 aperture	Front Camera	12MP Ultra Wide	Battery Life	Up to 10 hours usage	Security	Touch ID	Included	Apple Pencil Pro Magic Keyboard for Ipad Air (13") Screen Protector			
Display	11.2-inch 3.2K IPS LCD																																											
Resolution	3200 × 2136 pixels																																											
Processor	Snapdragon 8 Elite (3nm)																																											
RAM	12GB LPDDR5X																																											
Storage	512GB UFS 4.1																																											
Operating System	Android 16 with HyperOS 3																																											
Camera	50MP with PDAF Rear , 32MP ultra-wide Front																																											
Connectivity	Wi-Fi 7, Bluetooth 6.0																																											
Battery	9,200mAh																																											
Included	Pen Pro Keyboard Screen Protector																																											
Storage Capacity	1TB																																											
Connectivity	WiFi + Cellular (5G supported)																																											
Processor	Apple M4 Chip (8-core CPU, 9-core GPU, 16-core Neural Engine)																																											
Operating System	iPadOS																																											
Display	13-inch Liquid Retina Display																																											
Rear Camera	12MP Wide Camera, f/1.8 aperture																																											
Front Camera	12MP Ultra Wide																																											
Battery Life	Up to 10 hours usage																																											
Security	Touch ID																																											
Included	Apple Pencil Pro Magic Keyboard for Ipad Air (13") Screen Protector																																											