

Computer Configuration Specifications

Main System and Backup Configuration

Executive Summary

This document details the technical specifications of two computer configurations: the main configuration for daily use and a backup configuration for contingency. Both configurations include power backup through a UPS (*Uninterruptible Power Supply*) system.

Main Configuration:

- Processor: AMD Ryzen 5 5600X
- Graphics Card: AMD Radeon RX 5600
- RAM Memory: 32 GB

Backup Configuration:

- Processor: AMD Ryzen 7 7700X
- Graphics Card: NVIDIA GeForce RTX 4070
- RAM Memory: 32 GB

1 Main Configuration

1.1 Technical Specifications

Component	Specifications
Processor (CPU)	AMD Ryzen 5 5600X <ul style="list-style-type: none">Cores/Threads: 6 cores / 12 threadsBase Frequency: 3.7 GHzMax Boost Frequency: 4.6 GHzL3 Cache: 32 MBArchitecture: Zen 3 (7nm)TDP: 65W
Graphics Card (GPU)	AMD Radeon RX 5600 <ul style="list-style-type: none">Architecture: RDNA (Navi 10)Memory: 6 GB GDDR6Memory Speed: 12 GbpsMemory Bandwidth: 288 GB/sStream Processors: 2304Game Frequency: Up to 1560 MHz
RAM Memory	32 GB DDR4 <ul style="list-style-type: none">Capacity: 32 GB (2x16 GB or 4x8 GB)Speed: Recommended 3200-3600 MHzType: DDR4Latency: CL16 or better
Recommended Use	<ul style="list-style-type: none">Gaming at 1080p/1440pStreaming and multimedia contentOffice work and multitaskingBasic photo/video editing

2 Backup Configuration

2.1 Technical Specifications

Component	Specifications
Processor (CPU)	AMD Ryzen 7 7700X <ul style="list-style-type: none">Cores/Threads: 8 cores / 16 threadsBase Frequency: 4.5 GHzMax Boost Frequency: 5.4 GHzL3 Cache: 32 MBArchitecture: Zen 4 (5nm)TDP: 105WSocket: AM5
Graphics Card (GPU)	NVIDIA GeForce RTX 4070 <ul style="list-style-type: none">Architecture: Ada LovelaceMemory: 12 GB GDDR6XMemory Speed: 21 GbpsMemory Bandwidth: 504 GB/sCUDA Cores: 5888Boost Frequency: Up to 2475 MHzDLSS: Yes (DLSS 3)Ray Tracing: 3rd Generation
RAM Memory	32 GB DDR5 <ul style="list-style-type: none">Capacity: 32 GB (2x16 GB)Speed: 5200-6000 MHz recommendedType: DDR5Latency: CL30-CL36
Recommended Use	<ul style="list-style-type: none">4K gaming and high refresh rate 1440pProfessional content creationVideo editing and 3D renderingStreaming at highest qualityAI and machine learning tasks

3 Power Backup System

3.1 Uninterruptible Power Supply (UPS)

Component	Specifications
Device Type	<p>Line-Interactive UPS</p> <ul style="list-style-type: none">• Correct Name: Uninterruptible Power Supply (UPS)• Common Brands: APC, CyberPower, Eaton, Tripp Lite• Also known as: Power Backup, Battery Backup, Power Braker (informal term)
Key Specifications	<ul style="list-style-type: none">• Backup Time: 8 hours at half load• Capacity: 1500VA / 900W minimum (recommended)• Battery Type: Sealed lead-acid (SLA) or Lithium-ion• Output: Pure sine wave (recommended for sensitive electronics)• Connections: 6-10 outlets with surge protection• Management: USB/Network connectivity for monitoring
Estimated Runtime	<ul style="list-style-type: none">• Main Configuration (5600X + RX 5600):<ul style="list-style-type: none">– Idle/Office use: 8+ hours– Gaming load: 2-3 hours– Peak load: 1-2 hours• Backup Configuration (7700X + RTX 4070):<ul style="list-style-type: none">– Idle/Office use: 6-7 hours– Gaming load: 1.5-2.5 hours– Peak load: 1-1.5 hours
Features Required	<ul style="list-style-type: none">• Automatic Voltage Regulation (AVR)• Cold-start capability• Replaceable batteries• Audible alarms and status indicators• Software for safe shutdown• Data line protection (Ethernet, Coaxial)