Table version: 2019 R1 Version Date: 4/9/19

Copyright ANSYS, Inc. 2019.

Feature columns

Group	Feature
License Managers	ANSYS License Manager (ansyslmd)
	Ansoft License Manager (ansoftd, legacy)
	Apache License Manager (apacheda)
	Reaction Design License Manager (Legacy)
	Esterel License Manager (estereld)
Structural & Fluids Solver Capability	ANSYS AIM Pro
	ANSYS Mechanical Enterprise (Includes Autodyn, Fatigue Module, Asas, Aqwa)
	ANSYS Rigid Dynamics (Rigid Body Dynamics)
	ANSYS Emag (legacy, replaced by ANSYS Maxwell)
	ANSYS Multiphysics capability (includes LF Emag, HF Emag & FLOTRAN)
	ANSYS CFX
	ANSYS Mechanical User Programmable Features (USER300 & related commands)
	ANSYS Fluent (Including NOx, Fiber, MHD, Population Balance Modules)
	ANSYS Fluent Fuel Cell Module
	ANSYS Polyflow
	ANSYS LS-DYNA
	ANSYS Icepak
	ANSYS CHEMKIN-Pro, FORTE, Reaction Workbench, Encrypted Non-Member
	ANSYS FENSAP-ICE, Optigrid and Viewmerical
	ANSYS Asas - All modules except Concrete & Panel (Legacy, replaced by Mechanical Enterprise)
	ANSYS Aqwa Suite with Coupled Cable Dynamics (Legacy, replaced by Mechanical Enterprise)
	ANSYS Additive Suite & Additive Print
	ANSYS ROM Builder
Discovery	ANSYS SpaceClaim Direct Modeler (includes Faceted Data Toolkit)
	Discovery SpaceClaim
	Discovery AIM
	Discovery Live
	Discovery Ultimate Enterprise
Electronics & Systems Solver Capability	ANSYS Electronics Desktop (Includes RMXprt, PExprt)
	ANSYS HFSS Solver (FEM frequency, time domain & MoM frequency domain solver)
	ANSYS HFSS SBR+ Solver
	ANSYS HFSS Phyical Optics Solver
	ANSYS HFSS Fullwave Spice Export
	ANSYS Q3D Extractor 3D solver(2D & 3D quasi static EM field simulation & RLCG extraction)
	ANSYS RF Option (DC, Harmonic balance, Transient, Oscillator, TV Noise, filter synthesis, 2.5D MoM)
	ANSYS SI Option (DC, Quickeye, Verifye, IBIS-AMII, Transient, run HSPICE netlists, 3D transient)
	ANSYS SIwave (Power & SI: Hybrid, full-wave FEM for DC-Static, AC- freq domain & EMI time domain)
	ANSYS SIwave DC (DC power analysis, 3D FEM for DC static)
	ANSYS SIwave PI (DC & PI: DC- static, AC- steady state, PI Advisor)
	ANSYS Maxwell (Electrostatic, magnetostatic, Transient, AC, Vector Hysteresis)
	ANSYS Simplorer Advanced (legacy)
	ANSYS RedHawk NX
	ANSYS RedHawk SD
	ANSYS PowerArtist XP
	ANSYS PowerArtist PT
	SCADE System, Suite, Display and LifeCycle
Solver Numerical Limits	Unlimited!
	Numerical problem size limits
	32K nodes/element - Structural, Thermal & AUTODYN
	100K nodes/element - AIM Structural & Thermal
	256K nodes/element - Structural, Thermal & AUTODYN
	50K nodes/element - AIM Low Frequency Electromagnetics
	64K nodes/element - Low Frequency Electromagnetics
	512K nodes/element - Low Frequency Electromagnetics
	512K nodes/element - High Frequency (Full Wave) Electromagnetics
	1024K nodes/element - High Frequency (Full Wave) Electromagnetics
	512K nodes/element - Fluid Dynamics (CFX & FLUENT)
	1024K nodes/element - AIM Fluid Dynamics
MCAD Geometry & EDA Interfaces	Neural File Import (IGES, STEP)
	Import most common MCAD formats via SpaceClaim (Replaces Alinks for MCAD)
	ANSYS Geometry Interfaces for Parasolid & SAT
	ANSYS Geometry Interfaces for Solidwork, SolidEdge, Autodesk, NX
	ANSYS Geometry Interface for CATIA V5 & V6 Reader
	ANSYS Geometry Interface for Creo Parametric & Elements/Direct Modeling
	Geometry Interface for JT
	Import from 3rd party EDA exported data
	ANSYS Alinks for EDA (Altium, Cadence, Mentor Graphics, Sigrity and Zuken)
Pre & Post Processing Features & Workbench Applications	ANSYS PrepPost (Includes ANSYS M-APDL Prep7, Post1)
	Workbench Schematic (Project Page)
	ANSYS DesignModeler
	ANSYS Customization Suite (ACT)
	ANSYS Workbench Meshing (Includes Extended Meshing)
	ANSYS Workbench System Coupling (FSI with ONE license)
	ANSYS Workbench Acoustics
	ANSYS Workbench Topolgical Optimization
	ANSYS DesignXplorer
	ANSYS Workbench Mechanical Application (Simulation)
	ANSYS Workbench Resources (Engineering Data)
	ANSYS Workbench Design Point Updates
	ANSYS Composite PrepPost
	ANSYS CFD PrepPost (Includes Mesh Morpher, TurboGrid)
	ANSYS ICEM output interfaces for 3rd party solvers
	ANSYS Blademodeler (Bladegen, BladeEditor & VISTA CPD, CCD, AFD & RTD)
	ANSYS LS-DYNA Export *.K file
	ANSYS EnSight Enterprise (includes EnVision Pro)
High Performance Computing	Built-in HPC (16 cores per task)
	Ability to extend built-in HPC (at extra cost)
	Mechanical & Fluids HPC - Shared Memory, Distributed Memory, Domain Decomposition
	Electronics HPC - Distributed Memory, Domain Decomposition, Frequency Sweep)
	General Purpose GPU Support (ANSYS Mechanical & ANSYS Fluent solvers)
	ANSYS Remote Solver Manager (RSM)
	VT Accelerator & Frequency Sweep VT (Legacy- Replaced by Design Point Updates)
	Optimetrics - Parametric Design Optimization for HFSS, Maxwell, etc.
	Distriubted Solver Option (DSO) - For distributing an optimization solution
Other	ANSYS EKM Individual
	ANSYS EKM Shared (Legacy)
	Academic screen logo
	License borrowing (optional, turned OFF in the license file by default)
	Node locked license (tied to installation machine)
	Floating LAN Licenses (50 mile radius standard, upgradeable to Country Wide)
	Floating LAN Licenses (Country Wide standard)

Products

Product	License Feature Name(s)
ACADEMIC STRUCTURAL & FLUIDS PRODUCTS	
ACADEMIC ASSOCIATE	
ANSYS Academic Associate Mechanical and CFD	aa_a, aa_mcad
ANSYS Academic Associate CFD	aa_a_cfd, aa_mcad
ANSYS Academic Associate Chemical Kinetics (legacy)	*Multiple features*
ANSYS Academic Associate HPC (Including HPC Workgroup)	aa_a_hpc
ACADEMIC RESEARCH	
ANSYS Academic Research Mechanical and CFD	aa_r, aa_mcad
ANSYS Academic Research Mechanical	aa_r_me, aa_mcad
ANSYS Academic Research CFD	aa_r_cfd, aa_mcad
ANSYS Academic Research Chemical Kinetics (legacy)	*Multiple features*
ANSYS Academic Research Polyflow (legacy)	*aa_r_pf, aa_mcad*
ANSYS Academic Research Autodyn (legacy)	*aa_r_ad, aa_mcad*
ANSYS Academic Research Electronics Thermal (legacy)	*aa_r_et, aa_mcad*
ANSYS Academic Research Offshore/Marine (legacy)	*aa_r_om, aa_mcad, aa_r_aql*
ANSYS Academic Research HPC (Including HPC Workgroup)	aa_r_hpc
ANSYS Academic Research LS-DYNA	aa_r_dy, aa_mcad
ANSYS Academic Research LS-DYNA HPC	aa_dy_p
ACADEMIC TEACHING	
ANSYS Academic Teaching Mechanical and CFD	aa_t_a, aa_mcad, aa_ds
ANSYS Academic Teaching Introductory (legacy)	*aa_t_i, aa_mcad, aa_ds*
ANSYS Academic Teaching Mechanical	aa_t_me, aa_mcad, aa_ds
ANSYS Academic Teaching CFD	aa_t_cfd, aa_mcad
ANSYS Academic Teaching Chemical Kinetics (legacy)	*Multiple features*
ACADEMIC STUDENT	
Discovery AIM Student	aa_s_aim
ANSYS Student	aa_t_i
Discovery Live Student	n/a
ACADEMIC TOOLBOX	
ANSYS Academic Preprocessing Tools (renamed from Meshing Tools)	aa_mesh, aa_mcad
ANSYS Academic EnSight Post Processing Tools (legacy)	Multiple features
ANSYS Academic EKM Shared (legacy)	*ekm_desktop*
ANSYS Academic CFD Turbo Tools (legacy)	*aa_turbo*
ANSYS Academic Fuel Cell Tools (legacy)	*aa_fcell*
ANSYS Academic Composite Tools (legacy)	*acpreppost*
ANSYS Academic SpaceClaim Tools (legacy)	*a_spaceclaim_dirmod*
ANSYS Academic FENSAP Tools (legacy)	*Multiple features*
ACADEMIC ELECTRONICS & SYSTEMS PRODUCTS	
ACADEMIC ASSOCIATE	
ANSYS Academic Associate Electronics Suite	Multiple features
ANSYS Academic Associate HF	Multiple features
ANSYS Academic Associate EM	Multiple features
ANSYS Academic Associate Electronics HPC (Including HPC Workgroup)	Multiple features
ANSYS Academic Associate Redhawk	Multiple features
ANSYS Academic Associate Powerartist	Multiple features
ANSYS Academic Teaching SCADE	Multiple features
ACADEMIC RESEARCH	
ANSYS Academic Research Electronics Suite	Multiple features
ANSYS Academic Research HF	Multiple features
ANSYS Academic Research EM	Multiple features
ANSYS Academic Research Electronics HPC (Including HPC Workgroup)	Multiple features
ANSYS Academic Research Redhawk	Multiple features
ANSYS Academic Research Powerartist	Multiple features
ANSYS Academic Teaching SCADE	Multiple features
ACADEMIC TEACHING	
ANSYS Academic Teaching Electronics Suite	Multiple features
ANSYS Academic Teaching HF	Multiple features
ANSYS Academic Teaching EM	Multiple features
ANSYS Academic Teaching Redhawk	Multiple features
ANSYS Academic Teaching Powerartist	Multiple features
ANSYS Academic Teaching SCADE	Multiple features
ACADEMIC MULTIPHYSICS CAMPUS SOLUTION PRODUCTS	
ANSYS Academic Multiphysics Campus Solution (all versions)	Multiple features

NOTES:

1. Multiple Features: These academic products are defined by multiple license features bundled together into a single license key. The individual academic products have in the range of 25 - 50 license features each, the campus solution bundles have approximately 250 license features. Thus it is not practical to show the license features in this table. Please contacts your ANSYS Academic sales person or ANSYS Academic product technical support if you require these details.

2. Product names in *gray italic* marked legacy are no longer available for sale, but are shown for completeness. In most cases the capabilities of these legacy products have simply been absorbed into other academic products. Some product capabilities (columns) are also in *grey italic* and marked legacy, such capabilities are still available for the products indicated, but have either been superseded by more modern/alternate methods within the same or different academic products.

Distribué par : CADFEM

Simulation is more than Software®