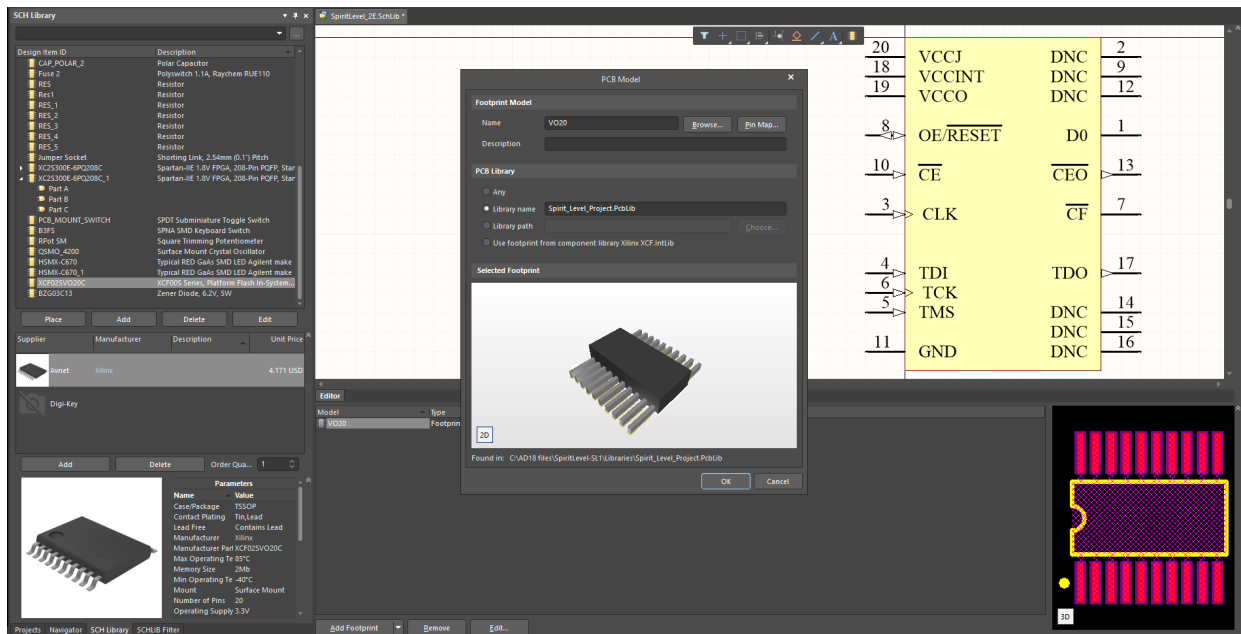


FEATURES AND BENEFITS

- Centrally manage your component libraries so they are always up-to-date
- Easily make data-driven, intelligent component decisions to save time and money
- Minimize uncertainties with access to component availability, pricing, and lifecycle state
- Save time by automating the creation of IPC-compliant component footprints



COMPONENT MANAGEMENT

We all know that a simple process of selecting a part for a design can spiral into a lengthy agony of undos — not knowing, for instance, whether the part selected will enter end-of-life before the project is even complete. Or sometimes last-minute supply issues derail design timelines and increase costs. Altium Designer® component management ensures that these kinds of scenarios are minimized by leveraging complete control over the component selection process. Integrated supply chain information combined with specified alternate parts directly in the bill of materials (BOM) minimize supply issues, selecting unapproved parts, or designing with components with unknown lifecycle states.

Unified Component Model

Altium Designer uses different library types (Schematic, PCB, Database, etc.) to define different aspects of a component (Symbol, Footprint, etc.) unified by a component library. Unified component models combine all defining information into a single, placeable design part. Maintained libraries exist in the same ecosystem as the design environment, allowing direct placement on a schematic and PCB layout.

You can link parts with real-time pricing and availability data from personal parts suppliers and over 100 Altium verified suppliers. You can leverage price, availability, and real-time supplier information to meet your design goals. Utilizing the information reduces risks of last minute costs due to component supply chain issues, such as long lead times or end-of-life (EOL). With Altium Designer component management, you can keep components organized, gather usage statistics, and update components to the latest revision with the click of a button.



Revision ID	Revision State	Name	Description
CMP-0252-00115-1	Released	MAX16913GEE+T	Remote Antenna Current-Sense Amplifier and Switch, 13 V / V Gain, 4-
CMP-0252-00083-1	Released	MAX9615AXA+	Low-Power, High-Efficiency, Single/Dual, Rail-to-Rail I/O Op Amp, 8-P,
CMP-0252-00074-1	Released	MAX9632AUA+	36V, Precision, Low-Noise, Wide-Band Amplifier, 8-Pin uMAX, 40°C to
CMP-0252-00429-1	Released	MAX4081FAUA-T	76 V, High-Side, Bi-directional Current-Sense Amplifier, 5 V / V Gain, 4-
CMP-0252-00501-1	Released	MAX4232AUA,GG8	High-Output-Drive, Rail-to-Rail I/O Op Amps with Shutdown, 10 MHz, 1-
CMP-0252-00133-1	Released	MAX4374HESD	Low-cost, Micropower, High-Side Current-Sense Amplifier + 2 Compar-
CMP-0252-00363-1	Released	MAX4377TAUA+	Dual High-Side Current Sense Amplifier, 20 V / V Gain, 40 to 125 degC,
CMP-0252-00457-1	Released	MAX9937AXK+T	Automotive Current-Sense Amplifier with Reverse-Battery Protection, Ad-
CMP-0252-00422-1	Released	MAX4172EUA-T	Precision, High-Side, Current-Sense Amplifier (out) 10 uA / mV Gain, 4-
CMP-0252-00519-1	Released	MAX44264EWT+	Ultra-Low Power Op Amp, 1.8 to 5.5 V, 40 to 85 degC, 6-Bal WLP (W,
CMP-0252-00119-1	Released	MAX9634HERS+	1 uA, Lithium-Ion Battery, Precision Current-Sense Amplifier, 25 V / V G,
CMP-0252-00006-2	Released	MAX9634HERS+	1 uA, 4-Bump, Precision Current-Sense Amplifier, 100 V / V Gain, 40 to
CMP-0252-00247-1	Released	MAX34406HETG+TW	Quad Current-Sense Amplifier with Overcurrent, Threshold Comparators...
CMP-0252-00180-1	Released	MAX4081FASA+T	76 V, High-Side, Bi-directional Current-Sense Amplifier, 5 V / V Gain, 4-
CMP-0252-00132-1	Released	MAX9934FAUA+	High-Precision Low-Volts Current-Sense Amplifier with Current Out

Item ID	Revision Models	Server
PCC-0028-00817	Footprint	Altium Content Vault
PCC-0028-00815	Footprint	Altium Content Vault
PCC-0028-00816	Footprint	Altium Content Vault
SYM-0028-00632	Symbol	Altium Content Vault

Bi-Dir. Curr. Sense	No
Code JEDEC	MO-137
Datasheet	http://datasheets.maxim
DatasheetVersion	Rev. 0
Gain	13 V/V
Industry Qualified	Automotive - AECQ100,
Manufacturer URL	http://www.maximintec
Mounting Technol...	Surface Mount
Package Specification	http://pdfserv.maximint
PackageDescription	16-Pin Quarter Small-Oi
PackageReference	E16+8F
PackageVersion	Rev. K, 04/2012
PartNumber	MAX16913GEE+T

Unified Component Model Management

Real-Time BOM Management

The BOM is a list with the necessary parts used in a design for manufacturing. ACTIVEBOM® provides you with automation by supplying part information such as availability and price from selected suppliers. Altium Designer ACTIVEBOM allows specifying pin-compatible backup part choices directly in the BOM referred to as alternative part choice. Having pin-compatible backup part choices nearly eliminates supply chain issue risks for manufacturing. In turn, you can design while taking into account potential manufacturing blowouts, reducing time to market and minimizing unexpected costs and design changes.

Line #	Name	Description	Designator	Quantity	Revision Status	Manufacturer 1	Manufacturer Part No 1	Manufacturer Lifecycle 1	Supplier 1
1	74754-0101	SFP+ Cage, Single...	B1, B2	2	Out of date	Molex	74754-0101	Volume Production	Mouser
2	CGB2A1XSR1E10...	Chip Capacitor, 1...	C1, C4...C7, C23...	19	Up to date	TDK	CGB2A1XSR1E105K0...	Volume Production	Avnet
3	ECJ-0EC1H680J	Chip Capacitor, 68...	C106	1	Up to date	Panasonic	ECJ-0EC1H680J	Obsolete	Digi-Key
4	C3216XSR1A476...	Chip Capacitor, 47...	C11, C12, C18...C...	24	Up to date	TDK	C3216XSR1A476M16...	Volume Production	Avnet
5	GRM155R61A224...	Chip Capacitor, 22...	C13, C15, C16, C2...	27	Up to date	Murata	GRM155R61A224KE1...	Volume Production	Arrow
6	VJ0402Y153JXQP...	Chip Capacitor, 15...	C14, C24, C33, C4...	7	Up to date	Vishay Vitramon	VJ0402Y153JXQPW1...	Volume Production	Mouser
7	CGJ2B2X7R1E22...	Chip Capacitor, 2...	C107	1	Out of date	TDK	CGJ2B2X7R1E22K0...	Volume Production	Arrow
8	GRM1535C1H560...	Chip Capacitor, 56...	C108	1	Up to date	Murata	GRM1535C1H560JD...	End of Life	Mouser
9	ECJ-0EC1H270J	Chip Capacitor, 27...	C17, C51	2	Up to date	Panasonic	ECJ-0EC1H270J	Obsolete	Avnet
10	GRM155R71H103...	Chip Capacitor, 10...	C2, C3, C67, C70...	20	Up to date	Murata	GRM155R71H103KA8...	Volume Production	Mouser
11	ECJ-0EC1H150J	Chip Capacitor, 15...	C48, C64	2	Up to date	Panasonic	ECJ-0EC1H150J	Obsolete	Digi-Key
12	C1005X7R1E104M	Chip Capacitor, 0...	C68, C69, C79, C1...	132	Up to date	TDK	C1005X7R1E104M	Volume Production	Mouser
13	EEH-ZA1E331P	Aluminum Electrol...	C74...C77	4	Up to date	Panasonic	EEH-ZA1E331P	Volume Production	Avnet
14	C1005C0G1H220...	Chip Capacitor, 22...	C8, C27, C36	3	Up to date	TDK	C1005C0G1H220J05...	Volume Production	Mouser
15	6TFF330M9L	Tantalum Capacito...	C80, C81, C87, C8...	6	Up to date	Panasonic	6TFF330M9L	Volume Production	Farnell
16	GRM31CR60J107...	Chip Capacitor, 10...	C82...C84, C89...	35	Up to date	Murata	GRM31CR60J107ME...	Volume Production	Farnell
17	GRM31CR61E226...	Chip Capacitor, 22...	C9, C10, C28, C29...	22	Up to date	Murata	GRM31CR61E226KE...	Volume Production	Arrow
18	VJ0402Y182JXCW...	Chip Capacitor, 1...	C94	1	Up to date	Vishay Vitramon	VJ0402Y182JXCW1...	Volume Production	Mouser
19	GRM155R71E473...	Chip Capacitor, 47...	C110	1	Up to date	Murata	GRM155R71E473KA8...	Volume Production	Avnet
20	GRM155R71E223...	Chip Capacitor, 22...	C111	1	Up to date	Murata	GRM155R71E223KA6...	Volume Production	Avnet
21	GRM155R71H681...	Chip Capacitor, 68...	C117	1	Up to date	Murata	GRM155R71H681KA0...	Volume Production	Arrow
22	GRM033R60J104...	Chip Capacitor, 10...	C118...C130, C14...	226	Up to date	Murata	GRM033R60J104KE1...	Volume Production	Arrow
23	GRM188R61A225...	Chip Capacitor, 2...	C297, C329, C355...	10	Up to date	Murata	GRM188R61A225KE3...	Unknown	Mouser
24	GRM155R71H472...	Chip Capacitor, 4...	C308	1	Up to date	Murata	GRM155R71H472KA0...	Volume Production	Avnet
25	C2012XSR1C106K...	Chip Capacitor, 10...	C330, C356, C370...	10	Up to date	TDK	C2012XSR1C106K08...	Volume Production	Digikey

Manufacturer Part	Favorite Suppliers
PRIMARY Vishay Vitramon VJ0402Y153JXQP... Multilayer Ceramic Capacitors MLCC - SMD/SMT 0402 0.01... 2 SPN(s) available	Mouser 77-VJ0402Y153JXQPBC Stock: 28035 Order qty: 7 Unit: \$0.14 Order: \$0.98 1 @ \$0.14 10 @ \$0.14 50 @ \$0.12 Show more
	Avnet VJ0402Y153JXQPW1BC Stock: 0 Order qty: 50000 Unit: \$0.0083 Order: \$415.00 50000 @ \$0.0083 100000 @ \$0.00805 200000 @ \$0.00772 Show more

ActiveBOM - Real-Time Cost Estimation & Part Availability



IPC-Compliant Footprint Wizards

Part creation is one of the most time-consuming tasks a designer has to do. Not only do you need to copy and paste the data into the component properties but you need to accurately draw each footprint before you can start your layout. With the IPC-compliant Footprint Wizard, you no longer need to spend your time drawing and redrawing each component footprint. The wizard creates IPC-compliant component footprints, and also 3D models. Rather than working from footprint dimensions, the IPC-compliant Footprint Wizard uses dimensional information from the component itself in accordance with the standards released by the IPC.

Rather than requiring you to enter the properties of the pads and tracks that are used to define the footprint, the Footprint Wizard takes the actual component dimensions as its inputs. Then, based on the formulas developed for the IPC-7351 standard, the Footprint Wizard generates the footprint using standard Altium Designer objects, such as pads and tracks, allowing you to edit and modify.

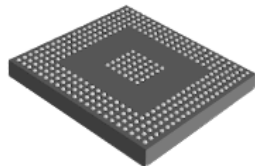
IPC © Compliant Footprint Wizard ✕

Select Component Type

Select the family of components you wish to create.

Component Types		
Name	Description	Included Packages
BGA	Ball Grid Array	BGA, CGA
BQFP	Bumpered Quad Flat Pack	BQFP
CAPAE	Electrolytic Aluminum Capacitor	CAPAE
CFP	Ceramic Dual Flat Pack - Trimmed and formed Gullwing Leads	CFP
Chip Array	Chip Array	Chip Array
DFN	Dual Flat No-lead	DFN
CHIP	Chip Components, 2-Pins	Capacitor, Inductor, Resistor
CQFP	Ceramic Quad Flat Pack - Trimmed and formed Gullwing Leads	CQFP
DPAK	Transistor Outline	DPAK
LCC	Leadless Chip Carrier	LCC
LGA	Land Grid Array	LGA
MELF	MELF Components, 2-Pins	Diode, Resistor
MOLDED	Molded Components, 2-Pins	Capacitor, Inductor, Diode
PLCC	Plastic Leaded Chip Carrier, Square - J Leads	PLCC
PQFN	Pullback Quad Flat No-Lead	PQFN
PQFP	Plastic Quad Flat Pack	PQFP, PQFP Exposed Pad
PSON	Pullback Small Outline No-Lead	PSON
QFN	Quad Flat No-Lead	QFN, LLP
QFN-2ROW	Quad Flat No-Lead, 2 Rows, Square	Double Row QFN
SODFL	Small Outline Diode, Flat Lead	SODFL
SQIC	Small Outline Integrated Package, 1.27mm Pitch, Gullwing Leads	SQIC, SQIC Exposed Pad

The selected component is BGA. This will allow you to generate BGA, CGA packages.



NOTE: All wizard measurement dimensions are required to be entered as metric (mm) units.

Cancel < Back Next > Finish

IPC-Compliant footprint Wizard