



COMPUTING MATERIAL SOLUTIONS

COMPUT



Alpha's mission is to be the industry's preferred supplier of high-performance materials and chemistry. We accomplish this by delivering leading technology and value, made possible by our innovative products, processes and people. For meeting requirements of today's assemblies and for tomorrow's challenges, Alpha is the right choice for your material supply.

ING

Computing related equipment must have a high degree of functionality and be capable of both processing large amounts of data quickly, as well as, connecting users to one another. This equipment also requires a large amount of processing speed and storage to support the use of complex software programs, displays and other peripherals. Today's computers and servers are complex in design and require joining materials that enable the assembly of a wide range of board types in a variety of different manufacturing processes and environments.



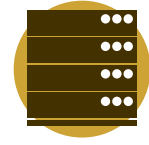
Tablets



Notebooks



Desktops



Servers



Hard Drives, Solid State Drives and Memory



Power Supplies



Peripherals



Tablets

Tablets represent the leading edge of assembly technology in the computer segment due to their functionality and complexity. Manufacturers of tablets value high performance and sustainable solder materials, as well as, creative solutions to overcome severe space constraints.

Key Requirements:

- High mechanical (i.e., drop shock) and electrical reliability
- Fine feature capable
- Product options to enable flexibility in board design and manufacturing process
- Excellent value, lowers total cost of ownership

COMPUTING: Tablets

APPLICATION	PRODUCT TYPE	PRODUCT	LOW TEMP	PB FREE	HALOGEN FREE
SMT – Printing and Dispensing	Solder Paste	ALPHA® OM-353 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Repeatable printing down to 0.3mm/.012" pitch and 01005 passives • Lowest post reflow residues of Alpha's chemistries • Low HIP and NWO Defects • Available in low silver SACX Plus alloy(s) for improved value 			
		ALPHA® OM-550 HRL1 <ul style="list-style-type: none"> • Best mechanical performance of Alpha's low temperature solder alloys • Repeatable printing down to 0.3mm/.012" pitch and 01005 passives • Significant reduction in warpage-induced defects such as HIP and NWO 			
SMT – Jetting	Solder Paste	ALPHA® JP-510 SAC305 <ul style="list-style-type: none"> • Jettable to 0.5mm/.020" pitch • High mechanical and electrochemical reliability 			
		ALPHA® JP-501 SnBiAg <ul style="list-style-type: none"> • Low HIP and NWO Defects • Jettable to 0.5mm/.020" pitch 			
SMT / PTH – Pick and Place	Preforms	ALPHA® Tape and Reel Preforms <ul style="list-style-type: none"> • High solder volume precision and production yields using pick and place • Available in many alloys, sizes and shapes • Flux coated versions available (*some fluxes contain halogens) 			
SMT / PTH – Point Soldering, Rework and Repair	Cored Wire	ALPHA® Telecore® HF-850 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Performs well with all standard pad finishes • Can be used in both robotic and manual soldering processes • ROL0 			
		ALPHA® Telecore® XL-825 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Best for difficult to solder surfaces • Can be used in both robotic and manual soldering processes • ROL1 			
SMT – Dispensing	Underfill	ALPHA® HiTech™ CU31-3085B <ul style="list-style-type: none"> • Fast flow • Reworkable 			
		ALPHA® HiTech™ CU31-300(A) <ul style="list-style-type: none"> • Fast flow • Excellent Impact Resistance • 20-day Pot Life • Reworkable 			
	Encapsulant	ALPHA® HiTech™ EN31-4007B <ul style="list-style-type: none"> • Excellent Impact Bend Resistance • 20-day Pot Life • Reworkable 			



Notebooks

Notebook computers available in the market today are extremely powerful with high capacity storage in a relatively small footprint. As a result, there are a wide variety of board materials, components and surface finishes being used in their assembly. Companies making notebook computers require joining materials which give them the greatest degree of flexibility in their board design.








Key Requirements:

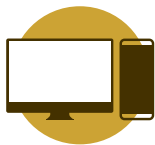
- High mechanical and electrical reliability
- Fine feature capable
- Product options to enable flexibility in board design and manufacturing process
- Excellent value, lowers total cost of ownership

COMPUTING: Notebooks

APPLICATION	PRODUCT TYPE	PRODUCT	LOW TEMP	PB FREE	HALOGEN FREE
SMT – Printing and Dispensing	Solder Paste	ALPHA® OM-353 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Repeatable printing down to 0.3mm/.012" pitch and 01005 passives • Lowest post reflow residues of Alpha's chemistries • Low HIP and NWO Defects • Available in low silver SACX Plus alloy(s) for improved value 			
		ALPHA® OM-363 SAC305 <ul style="list-style-type: none"> • Repeatable printing down to 0.4mm/.016" pitch • Low NWO and HIP Defects 			
		ALPHA® OM-550 HRL1 <ul style="list-style-type: none"> • Best mechanical performance of Alpha's low temperature solder alloys • Repeatable printing down to 0.3mm/.012" pitch and 01005 passives • Significant reduction in warpage-induced defects such as HIP and NWO 			
SMT – Jetting	Solder Paste	ALPHA® JP-510 SAC305 <ul style="list-style-type: none"> • Jettable to 0.5mm/.020" pitch • High mechanical and electrochemical reliability 			
		ALPHA® JP-501 SnBiAg <ul style="list-style-type: none"> • Low HIP and NWO Defects • Jettable to 0.5mm/.020" pitch 			
SMT / PTH – Pick and Place	Preforms	ALPHA® Tape and Reel Preforms <ul style="list-style-type: none"> • High solder volume precision and production yields using pick and place • Available in many alloys, sizes and shapes • Flux coated versions available (*some fluxes contain halogens) 			
SMT / PTH – Point Soldering, Rework and Repair	Cored Wire	ALPHA® Telecore® HF-850 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Performs well with all standard pad finishes • Can be used in both robotic and manual soldering processes • ROL0 			
		ALPHA® Telecore® XL-825 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Best for difficult to solder surfaces • Can be used in both robotic and manual soldering processes • ROL1 			
SMT – Dispensing	Underfill	ALPHA® HiTech™ CU31-3085B <ul style="list-style-type: none"> • Fast flow • Reworkable 			
		ALPHA® HiTech™ CU31-300(A) <ul style="list-style-type: none"> • Fast flow • Excellent Impact Resistance • 20-day Pot Life • Reworkable 			
	Encapsulant	ALPHA® HiTech™ EN31-4007B <ul style="list-style-type: none"> • Excellent Impact Bend Resistance • 20-day Pot Life • Reworkable 			

COMPUTING: Notebooks continued

APPLICATION	PRODUCT TYPE	PRODUCT	LOW TEMP	PB FREE	HALOGEN FREE
PTH – Wave / Selective Soldering	Bar and Solid Wire Solder	ALPHA® SACX Plus 0807 <ul style="list-style-type: none"> • Low Silver (0.8%) for improved value vs. SAC305 • SAC305-like soldering and reliability performance on complex assemblies • Low Copper dissolution and low drossing 			
		ALPHA® SACX Plus 0307 <ul style="list-style-type: none"> • Low Silver (0.3%) for improved value vs. SAC305 • Low Copper dissolution and low drossing • Excellent for most standard assemblies 			
		ALPHA® SnCX Plus 07 <ul style="list-style-type: none"> • Silver free for best value of SnCu alloys • Low Copper dissolution and low drossing 			
	Liquid Flux	ALPHA® EF-6103 <ul style="list-style-type: none"> • ORLO • Passes IPC J-STD-004B • Best for selective soldering processes 			
		ALPHA® EF-6808HF <ul style="list-style-type: none"> • ROLO • Passes IPC J-STD-004B • Excellent for most standard complexity assemblies 			
		ALPHA® EF-8000 <ul style="list-style-type: none"> • ROLO • Passes IPC J-STD-004B • Excellent for high density board 			



Desktops

Desktop computers have a wide range of functionality and capability without the space constraints of a notebook PC. Most are extremely powerful with high capacity storage. There are a wide variety of board materials, components and surface finishes being used in their assembly.








Key Requirements:

- High mechanical and electrical reliability
- Fine feature capable
- Product options to enable flexibility in board design and manufacturing process
- Excellent value, lowers total cost of ownership

COMPUTING: Desktops

APPLICATION	PRODUCT TYPE	PRODUCT	LOW TEMP	PB FREE	HALOGEN FREE
SMT – Printing and Dispensing	Solder Paste	ALPHA® OM-353 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Repeatable printing down to 0.3mm/.012" pitch and 01005 passives • Lowest post reflow residues of Alpha's chemistries • Low HIP and NWO Defects • Available in low silver SACX Plus alloy(s) for improved value 			
		ALPHA® OM-363 SAC305 <ul style="list-style-type: none"> • Repeatable printing down to 0.4mm/.016" pitch • Low NWO and HIP Defect 			
		ALPHA® OM-550 HRL1 <ul style="list-style-type: none"> • Best mechanical performance of Alpha's low temperature solder alloys • Repeatable printing down to 0.3mm/.012" pitch and 01005 passives • Significant reduction in warpage-induced defects such as HIP and NWO 			
SMT – Jetting	Solder Paste	ALPHA® JP-510 SAC305 <ul style="list-style-type: none"> • Jettable to 0.5mm/.020" pitch • High mechanical and electrochemical reliability 			
		ALPHA® JP-501 SnBiAg <ul style="list-style-type: none"> • Low HIP and NWO Defects • Jettable to 0.5mm/.020" pitch 			
SMT / PTH – Pick and Place	Preforms	ALPHA® Tape and Reel Preforms <ul style="list-style-type: none"> • High solder volume precision and production yields using pick and place • Available in many alloys, sizes and shapes • Flux coated versions available (*some fluxes contain halogens) 			
SMT / PTH – Point Soldering, Rework and Repair	Cored Wire	ALPHA® Telecore® HF-850 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Performs well with all standard pad finishes • Can be used in both robotic and manual soldering processes • ROL0 			
		ALPHA® Telecore® XL-825 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Best for difficult to solder surfaces • Can be used in both robotic and manual soldering processes • ROL1 			

COMPUTING: Desktops continued

APPLICATION	PRODUCT TYPE	PRODUCT	LOW TEMP	PB FREE	HALOGEN FREE
PTH – Wave / Selective Soldering	Bar and Solid Wire Solder	ALPHA® SACX Plus 0807 <ul style="list-style-type: none"> Low Silver (0.8%) for improved value vs. SAC305 SAC305-like soldering and reliability performance on complex assemblies Low Copper dissolution and low drossing 			
		ALPHA® SACX Plus 0307 <ul style="list-style-type: none"> Low Silver (0.3%) for improved value vs. SAC305 Low Copper dissolution and low drossing Excellent for most standard assemblies 			
		ALPHA® SnCX Plus 07 <ul style="list-style-type: none"> Silver free for best value of SnCu alloys Low Copper dissolution and low drossing 			
	Liquid Flux	ALPHA® EF-6103 <ul style="list-style-type: none"> ORLO Passes IPC J-STD-004B Best for selective soldering processes 			
		ALPHA® EF-6808HF <ul style="list-style-type: none"> ROLO Passes IPC J-STD-004B Excellent for most standard complexity assemblies 			
		ALPHA® EF-8000 <ul style="list-style-type: none"> ROLO Passes IPC J-STD-004B Excellent for high density board 			



Servers

Computer servers connect workstations, PCs and many other communications devices to one another locally and via the internet. This equipment is generally complex and powerful in design and requires joining materials that are highly robust and can withstand the most challenging manufacturing environments yet meet high surface insulation resistance requirements.

Key Requirements:

- Product options to enable flexibility in board design and manufacturing process
- High electrochemical reliability alone and in combination with other joining materials
- High thermal and electrical conductivity
- High throughput, low defects

COMPUTING: Servers

APPLICATION	PRODUCT TYPE	PRODUCT	LOW TEMP	PB FREE	HALOGEN FREE
SMT – Printing and Dispensing	Solder Paste	ALPHA® OM-363 SAC305 <ul style="list-style-type: none"> • Repeatable printing down to 0.4mm/.016" pitch • Low NWO and HIP Defects 			
		ALPHA® OM-550 HRL1 <ul style="list-style-type: none"> • Best mechanical performance of Alpha's low temperature solder alloys • Repeatable printing down to 0.3mm/.012" pitch and 01005 passives • Significant reduction in warpage-induced defects such as HIP and NWO 			
SMT – Jetting	Solder Paste	ALPHA® JP-510 SAC305 <ul style="list-style-type: none"> • Jettable to 0.5mm/.020" pitch • High mechanical and electrochemical reliability 			
		ALPHA® JP-501 SnBiAg <ul style="list-style-type: none"> • Low HIP and NWO Defects • Jettable to 0.5mm/.020" pitch 			
SMT / PTH – Pick and Place	Preforms	ALPHA® BTC-578 Accuflux Preforms <i>Innolot / SAC305 / Low-temp</i> <ul style="list-style-type: none"> • Increasing thermal conductivity and heat dissipation through void reduction • Low flux residue improves electrochemical reliability • Prevents mechanical stackup issues through increased solder volume 			
		ALPHA® Tape and Reel Preforms <ul style="list-style-type: none"> • High solder volume precision and production yields using pick and place • Available in many alloys, sizes and shapes • Flux coated versions available (*some fluxes contain halogens) 			*
SMT / PTH – Point Soldering, Rework and Repair	Cored Wire	ALPHA® Telecore® HF-850 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Performs well with all standard pad finishes • Can be used in both robotic and manual soldering processes • ROL0 			
		ALPHA® Telecore® XL-825 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Best for difficult to solder surfaces • Can be used in both robotic and manual soldering processes • ROL1 			
PTH – Wave / Selective Soldering	Bar and Solid Wire Solder	ALPHA® SAC305 <ul style="list-style-type: none"> • Excellent soldering performance • High thermal fatigue resistance • Widely used 			
		ALPHA® SACX Plus 0807 <ul style="list-style-type: none"> • Low Silver (0.8%) for improved value vs. SAC305 • SAC305-like soldering and reliability performance on complex assemblies • Low Copper dissolution and low drossing 			
	Liquid Flux	ALPHA® EF-6808HF <ul style="list-style-type: none"> • ROL0 • Passes IPC J-STD-004B • Excellent for most standard complexity assemblies 			
		ALPHA® EF-8800HF <ul style="list-style-type: none"> • ORLO • Passes IPC J-STD-004B • Designed for thick, complex boards 			



Hard Drives,
Solid State Drives
and Memory

Storage devices are used across a spectrum of electronic devices and are built in controlled manufacturing environments. Manufacturers value joining material quality and repeatable processing performance to meet their high quality standards.

Key Requirements:

- High mechanical and electrical reliability
- Fine feature capable
- Wide processing window
- High throughput, low defects

COMPUTING: Hard Drives, Solid State Drives and Memory

APPLICATION	PRODUCT TYPE	PRODUCT	LOW TEMP	PB FREE	HALOGEN FREE
SMT – Printing and Dispensing	Solder Paste	ALPHA® OM-353 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Repeatable printing down to 0.3mm/.012" pitch and 01005 passives • Lowest post reflow residues of Alpha's chemistries • Low HIP and NWO Defects • Available in low silver SACX Plus alloy(s) for improved value 			
		ALPHA® OM-550 HRL1 <ul style="list-style-type: none"> • Best mechanical performance of Alpha's low temperature solder alloys • Repeatable printing down to 0.3mm/.012" pitch and 01005 passives • Significant reduction in warpage-induced defects such as HIP and NWO 			
SMT – Jetting	Solder Paste	ALPHA® JP-510 SAC305 <ul style="list-style-type: none"> • Jettable to 0.5mm/.020" pitch • High mechanical and electrochemical reliability 			
		ALPHA® JP-501 SnBiAg <ul style="list-style-type: none"> • Low HIP and NWO Defects • Jettable to 0.5mm/.020" pitch 			
SMT / PTH – Pick and Place	Preforms	ALPHA® Tape and Reel Preforms <ul style="list-style-type: none"> • High solder volume precision and production yields using pick and place • Available in many alloys, sizes and shapes • Flux coated versions available (*some fluxes contain halogens) 			
SMT / PTH – Point Soldering, Rework and Repair	Cored Wire	ALPHA® Telecore® HF-850 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Performs well with all standard pad finishes • Can be used in both robotic and manual soldering processes • ROL0 			
		ALPHA® Telecore® XL-825 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Best for difficult to solder surfaces • Can be used in both robotic and manual soldering processes • ROL1 			



Power Supplies

Power supply assemblies are used across a wide spectrum of devices and equipment in virtually all electronic markets. Power supplies are made in many places and, as a result, there are a wide variety of board materials, components and process conditions used.








Key Requirements:

- High performance under wide process conditions
- Excellent value, lowers total cost of ownership
- High mechanical and electrochemical reliability

COMPUTING: Power Supplies

APPLICATION	PRODUCT TYPE	PRODUCT	LOW TEMP	PB FREE	HALOGEN FREE
SMT – Printing and Dispensing	Solder Paste	ALPHA® OM-353 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Repeatable printing down to 0.3mm/.012" pitch and 01005 passives • Lowest post reflow residues of Alpha's chemistries • Low HIP and NWO Defects • Available in low silver SACX Plus alloy(s) for improved value 			
		ALPHA® OM-535 SBX02 <ul style="list-style-type: none"> • Low temperature solder alloy with improved mechanical performance vs. SnBiAg • Repeatable printing down to 0.4mm/.016" pitch 			
		ALPHA® CVP-520MSD BC SnBiAg <ul style="list-style-type: none"> • Repeatable printing down to 0.4mm/.016" pitch • Low solder paste dripping and tailing 			
SMT / PTH – Pick and Place	Preforms	ALPHA® Tape and Reel Preforms <ul style="list-style-type: none"> • High solder volume precision and production yields using pick and place • Available in many alloys, sizes and shapes • Flux coated versions available (*some fluxes contain halogens) 			
SMT / PTH – Point Soldering, Rework and Repair	Cored Wire	ALPHA® Telecore® XL-825 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Best for difficult to solder surfaces • Can be used in both robotic and manual soldering processes • ROL1 			
SMT – Dispensing	Adhesive	ALPHA® HiTech™ SM42-1311 <ul style="list-style-type: none"> • Non-Sagging • Excellent adhesion on FR4 • Resists change due to high heat post application processing (i.e., wave soldering) 			
SMT – Printing	Adhesive	ALPHA® HiTech™ SM42-120P <ul style="list-style-type: none"> • Non-Sagging • Excellent adhesion on FR4 • Resists change due to high heat post application processing (i.e., wave soldering) 			

COMPUTING: Power Supplies continued

APPLICATION	PRODUCT TYPE	PRODUCT	LOW TEMP	PB FREE	HALOGEN FREE
PTH – Wave / Selective Soldering	Bar and Solid Wire Solder	ALPHA® SACX Plus 0807 <ul style="list-style-type: none"> • Low Silver (0.8%) for improved value vs. SAC305 • SAC305-like soldering and reliability performance on complex assemblies • Low Copper dissolution and low drossing 			
		ALPHA® SACX Plus 0307 <ul style="list-style-type: none"> • Low Silver (0.3%) for improved value vs. SAC305 • Low Copper dissolution and low drossing • Excellent for most standard assemblies 			
		ALPHA® SnCX Plus 07 <ul style="list-style-type: none"> • Silver free for best value of SnCu alloys • Low Copper dissolution and low drossing 			
	Liquid Flux	ALPHA® EF-6103 <ul style="list-style-type: none"> • ORLO • Passes IPC J-STD-004B • Best for selective soldering processes 			
		ALPHA® EF-6808HF <ul style="list-style-type: none"> • ROLO • Passes IPC J-STD-004B • Excellent for most standard complexity assemblies 			
		ALPHA® EF-8000 <ul style="list-style-type: none"> • ROLO • Passes IPC J-STD-004B • Excellent for high density board 			



Peripherals

Peripherals include a host of electronic devices that link directly to a PC via a wired or wireless connection and provide a variety of internal and external functions related to things like audio, video (displays), printing and cursor control (mouse). Peripherals can vary widely in quality and complexity with most common using medium complexity assemblies requiring high speed, low cost manufacturing.








Key Requirements:

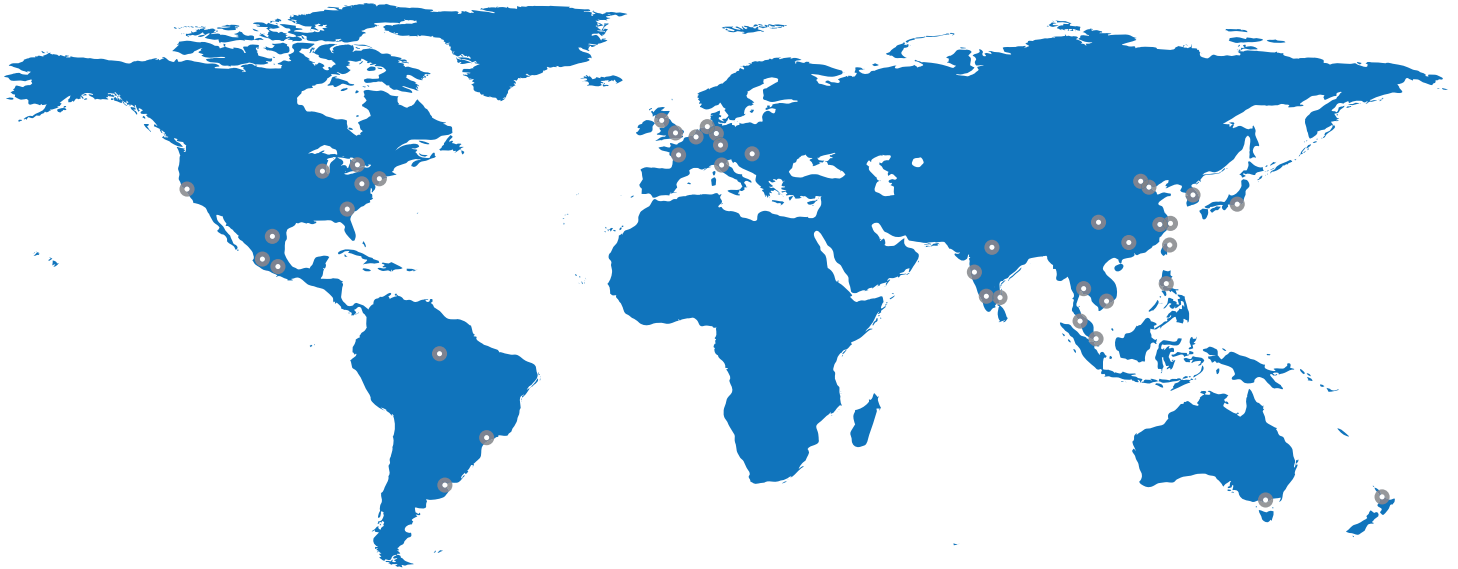
- High performance under wide process conditions
- Excellent value, lowers total cost of ownership
- High mechanical and electrochemical reliability

COMPUTING: Peripherals

APPLICATION	PRODUCT TYPE	PRODUCT	LOW TEMP	PB FREE	HALOGEN FREE
SMT – Printing and Dispensing	Solder Paste	ALPHA® OM-353 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Repeatable printing down to 0.3mm/.012" pitch and 01005 passives • Lowest post reflow residues of Alpha's chemistries • Low HIP and NWO Defects • Available in low silver SACX Plus alloy(s) for improved value 			
		ALPHA® OM-550 HRL1 <ul style="list-style-type: none"> • Best mechanical performance of Alpha's low temperature solder alloys • Repeatable printing down to 0.3mm/.012" pitch and 01005 passives • Significant reduction in warpage-induced defects such as HIP and NWO 			
SMT / PTH – Pick and Place	Preforms	ALPHA® Tape and Reel Preforms <ul style="list-style-type: none"> • High solder volume precision and production yields using pick and place • Available in many alloys, sizes and shapes • Flux coated versions available (*some fluxes contain halogens) 			
SMT / PTH – Point Soldering, Rework and Repair	Cored Wire	ALPHA® Telecore® XL-850 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Performs well with all standard pad finishes • Can be used in both robotic and manual soldering processes • ROL0 			
		ALPHA® Telecore® XL-825 SAC305 / SACX Plus 0307 <ul style="list-style-type: none"> • Best for difficult to solder surfaces • Can be used in both robotic and manual soldering processes • ROL1 			
SMT – Dispensing	Adhesive	ALPHA® HiTech™ SM42-1311 <ul style="list-style-type: none"> • Non-Sagging • Excellent adhesion on FR4 • Resists change due to high heat post application processing (i.e., wave soldering) 			
SMT – Printing	Adhesive	ALPHA® HiTech™ SM42-120P <ul style="list-style-type: none"> • Non-Sagging • Excellent adhesion on FR4 • Resists change due to high heat post application processing (i.e., wave soldering) 			

COMPUTING: Peripherals continued

APPLICATION	PRODUCT TYPE	PRODUCT	LOW TEMP	PB FREE	HALOGEN FREE
PTH – Wave / Selective Soldering	Bar and Solid Wire Solder	ALPHA® SACX Plus 0807 <ul style="list-style-type: none"> • Low Silver (0.8%) for improved value vs. SAC305 • SAC305-like soldering and reliability performance on complex assemblies • Low Copper dissolution and low drossing 			
		ALPHA® SACX Plus 0307 <ul style="list-style-type: none"> • Low Silver (0.3%) for improved value vs. SAC305 • Low Copper dissolution and low drossing • Excellent for most standard assemblies 			
		ALPHA® SnCX Plus 07 <ul style="list-style-type: none"> • Silver free for best value of SnCu alloys • Low Copper dissolution and low drossing 			
	Liquid Flux	ALPHA® EF-6103 <ul style="list-style-type: none"> • ORLO • Passes IPC J-STD-004B • Best for selective soldering processes 			
		ALPHA® EF-6808HF <ul style="list-style-type: none"> • ROLO • Passes IPC J-STD-004B • Excellent for most standard complexity assemblies 			
		ALPHA® EF-8000 <ul style="list-style-type: none"> • ROLO • Passes IPC J-STD-004B • Excellent for high density board 			



**For more information on Alpha's
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contact a sales representative.**

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