

PCN20029: Addition of MMT as a Package Assembly Site for Legacy FPGAs with Gold (Au) Wires

February 10, 2021

Description

Microchip FPGA Business Unit is adding Microchip Technology Thailand (MMT) as an assembly and packaging site for Legacy RT and commercial FPGAs with gold bond wires. The impact is on the following product families:

- RTSX-SU
- RT ProASIC3
- SX-A
- ProASIC^{PLUS}
- AX
- SX

MMT is a QML-Q and QML-V DLA-certified facility assembling space-grade and commercial hermetic devices for customers.

For QML-Q devices (E-flow and EV-flow), Pre Cap Visual Inspection is traditionally performed by a third party, Source Surveillance Services Inc. (SSSI) on onshore assembly house, Kyocera.

For devices assembled in MMT Thailand, the Pre Cap inspection will be performed internally by a designated MMT inspector.

Reason for Change

Streamline of operations and adding MMT as a qualified assembly site.

Application Impact

There is no change in form, fit, function, quality, or reliability of the devices.

Production Shipment Schedule

Microsemi will start shipping MMT material in May 2021.

Microsemi reserves the right to continue the shipment of devices built at Kyocera or MMT after qualification.

Qualification Data

MMT has been fully qualified to ship material for the products impacted by this PCN.

Qualification report is available upon request.

Products Affected

Device Family	Device Name	Qualification	SMD Part Number
A54SX16	A54SX16-CQ256B	class B	5962-9956903QXC
	A54SX16-1CQ256B	class B	5962-9956904QXC
	A54SX16-CQ208B	class B	5962-9956903QYC
	A54SX16-1CQ208B	class B	5962-9956904QYC
	A54SX16-CQ256	commercial	-
	A54SX16-1CQ208M	commercial	-
A54SX32	A54SX32-CQ256B	class B	5962-9958601QXC
	A54SX32-1CQ256B	class B	5962-9958602QXC
	A54SX32-CQ208B	class B	5962-9958601QYC
	A54SX32-1CQ208B	class B	5962-9958602QYC
	A54SX32-CQ208	commercial	-
	A54SX32A-1CQ208	commercial	-
	A54SX32-CQ208M	commercial	-
	A54SX32-1CQ208M	commercial	-
A54SX32A	A54SX32A-CQ256B	class B	5962-0151801QXC
	A54SX32A-1CQ256B	class B	5962-0151802QXC
	A54SX32A-CQ208B	class B	5962-0151801QYC
	A54SX32A-1CQ208B	class B	5962-0151802QYC
	A54SX32A-CQ84B	class B	5962-0151801QZC
	A54SX32A-1CQ84B	class B	5962-0151802QZC
	A54SX32A-CQ256	commercial	-
	A54SX32A-1CQ256	commercial	-
	A54SX32A-CQ256M	commercial	-
	A54SX32A-1CQ256M	commercial	-
	A54SX32A-CQ208	commercial	-
	A54SX32A-CQ208M	commercial	-
	A54SX32A-1CQ208M	commercial	-
	A54SX32A-CQ84	commercial	-
	A54SX32A-CQ84M	commercial	-
	A54SX32A-1CQ84M	commercial	-
A54SX72A	A54SX72A-CQ256B	class B	5962-0054301QXC
	A54SX72A-1CQ256B	class B	5962-0054302QXC
	A54SX72A-CQ208B	class B	5962-0054301QYC
	A54SX72A-1CQ208B	class B	5962-0054302QYC
	A54SX72A-CQ256	commercial	-
	A54SX72A-1CQ256	commercial	-
	A54SX72A-CQ256M	commercial	-
	A54SX72A-1CQ256M	commercial	-
	A54SX72A-CQ208	commercial	-
	A54SX72A-1CQ208	commercial	-
	A54SX72A-CQ208M	commercial	-
	A54SX72A-1CQ208M	commercial	-
RTSX32SU	RTSX32SU-CQ256B	class B	5962-0150805QXC
	RTSX32SU-1CQ256B	class B	5962-0150806QXC

Device Family	Device Name	Qualification	SMD Part Number
	RTSX32SU-CQ208B	class B	5962-0150805QYC
	RTSX32SU-1CQ208B	class B	5962-0150806QYC
	RTSX32SU-CQ84B	class B	5962-0150805QZC
	RTSX32SU-1CQ84B	class B	5962-0150806QZC
	RTSX32SU-CQ256E	E-flow	5962-0150807QXC
	RTSX32SU-1CQ256E	E-flow	5962-0150808QXC
	RTSX32SU-CQ208E	E-flow	5962-0150807QYC
	RTSX32SU-1CQ208E	E-flow	5962-0150808QYC
	RTSX32SU-CQ84E	E-flow	5962-0150807QZC
	RTSX32SU-1CQ84E	E-flow	5962-0150808QZC
	RTSX32SU-CQ256EV	EV-flow	5962-0150809QXC
	RTSX32SU-1CQ256EV	EV-flow	5962-0150810QXC
	RTSX32SU-CQ208EV	EV-flow	5962-0150809QYC
	RTSX32SU-1CQ208EV	EV-flow	5962-0150810QYC
	RTSX32SU-CQ84EV	EV-flow	5962-0150809QZC
	RTSX32SU-1CQ84EV	EV-flow	5962-0150810QZC
	RTSX32SU-CC256EV	EV-flow	-
	RTSX32SU-1CC256EV	EV-flow	-
	RTSX32SU-CC256E	E-flow	-
	RTSX32SU-1CC256E	E-flow	-
	RTSX32SU-CC256B	class B	-
	RTSX32SU-1CC256B	class B	-
	RTSX32SU-CC256M	commercial	-
	RTSX32SU-1CC256M	commercial	-
RTSX72SU	RTSX72SU-CQ256B	class B	5962-0151505QXC
	RTSX72SU-1CQ256B	class B	5962-0151506QXC
	RTSX72SU-CQ208B	class B	5962-0151505QYC
	RTSX72SU-1CQ208B	class B	5962-0151506QYC
	RTSX72SU-CQ256E	E-flow	5962-0151507QXC
	RTSX72SU-1CQ256E	E-flow	5962-0151508QXC
	RTSX72SU-CQ208E	E-flow	5962-0151507QYC
	RTSX72SU-1CQ208E	E-flow	5962-0151508QYC
	RTSX72SU-CQ256EV	EV-flow	5962-0151509QXC
	RTSX72SU-1CQ256EV	EV-flow	5962-0151510QXC
	RTSX72SU-CQ208EV	EV-flow	5962-0151509QYC
	RTSX72SU-1CQ208EV	EV-flow	5962-0151510QYC
RT3PE3000L	RT3PE3000L-LG896B	class B	5962-1520201QKC
	RT3PE3000L-CG896B	class B	5962-1520201QLF
	RT3PE3000L-CG484B	class B	5962-1520201QUF
	RT3PE3000L-CQ256B	class B	5962-1520201QXC
	RT3PE3000L-LG484B	class B	5962-1520201QZC
	RT3PE3000L-1LG896B	class B	5962-1520202QKC
	RT3PE3000L-1CG896B	class B	5962-1520202QLF
	RT3PE3000L-1CG484B	class B	5962-1520202QUF
	RT3PE3000L-1CQ256B	class B	5962-1520202QXC
	RT3PE3000L-1LG484B	class B	5962-1520202QZC

Device Family	Device Name	Qualification	SMD Part Number
	RT3PE3000L-LG896E	E-flow	5962-1520203QKC
	RT3PE3000L-CG896E	E-flow	5962-1520203QLF
	RT3PE3000L-CG484E	E-flow	5962-1520203QUF
	RT3PE3000L-CQ256E	E-flow	5962-1520203QXC
	RT3PE3000L-LG484E	E-flow	5962-1520203QZC
	RT3PE3000L-1LG896E	E-flow	5962-1520204QKC
	RT3PE3000L-1CG896E	E-flow	5962-1520204QLF
	RT3PE3000L-1CG484E	E-flow	5962-1520204QUF
	RT3PE3000L-1CQ256E	E-flow	5962-1520204QXC
	RT3PE3000L-1LG484E	E-flow	5962-1520204QZC
	RT3PE3000L-LG484PROTO	commercial	-
	RT3PE3000L-1LG484PROTO	commercial	-
RT3PE600L	RT3PE600L-CG484B	class B	5962-1520301QUF
	RT3PE600L-CQ256B	class B	5962-1520301QXC
	RT3PE600L-LG484B	class B	5962-1520301QZC
	RT3PE600L-1CG484B	class B	5962-1520302QUF
	RT3PE600L-1CQ256B	class B	5962-1520302QXC
	RT3PE600L-1LG484B	class B	5962-1520302QZC
	RT3PE600L-CG484E	E-flow	5962-1520303QUF
	RT3PE600L-CQ256E	E-flow	5962-1520303QXC
	RT3PE600L-LG484E	E-flow	5962-1520303QZC
	RT3PE600L-1CG484E	E-flow	5962-1520304QUF
	RT3PE600L-1CQ256E	E-flow	5962-1520304QXC
	RT3PE600L-1LG484E	E-flow	5962-1520304QZC
	RT3PE600L-LG484PROTO	commercial	-
	RT3PE600L-1LG484PROTO	commercial	-
AX	AX250-CQ208M	commercial	-
	AX250-1CQ208M	commercial	-
	AX250-CQ352M	commercial	-
	AX250-1CQ352M	commercial	-
	AX500-CQ208M	commercial	-
	AX500-1CQ208M	commercial	-
	AX2000-CQ256M	commercial	-
	AX2000-1CQ256M	commercial	-
	AX2000-CQ352B	class B	-
	AX2000-CQ352M	commercial	-
	AX2000-1CQ352M	commercial	-
	AX2000-LG624M	commercial	-
	AX2000-1LG624M	commercial	-
	AX2000-CGS624M	commercial	-
	AX2000-1CGS624M	commercial	-
	AX1000-CQ352M	commercial	-
	AX1000-1CQ352M	commercial	-
	AX1000-LG624M	commercial	-
	AX1000-1LG624M	commercial	-

Device Family	Device Name	Qualification	SMD Part Number
ProASIC ^{PLUS}	APA300-CQ208M	commercial	-
	APA300-CQ208B	class B	-
	APA600-CQ352B	class B	-
	APA600-CQ208M	commercial	-
	APA600-CQ208B	class B	-
	APA600-CGS624M	commercial	-
	APA600-CGS624B	commercial	-
	APA1000-CQ208M	commercial	-
	APA1000-CQ208B	class B	-
	APA1000-CQ352B	class B	-
	APA1000-LG624M	commercial	-
	APA1000-LG624B	class B	-
	APA1000-CGS624M	commercial	-
	APA1000-CGS624B	class B	-

Contact Information

If you have any questions about this subject, contact Microsemi Technical Support department by using the support portal at <https://soc.microsemi.com/Portal/Default.aspx>

Regards,

Microsemi Corporation

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