



## Discontinuation Notification

202009028DN

**Issue Date:** 24-Sep-2020

**Effective Date:** 25-Sep-2020

Here's your personalized quality information concerning products Digi-Key purchased from NXP. For detailed information we invite you to view this notification online



# QUALITY

## NXP Semiconductors Oak Hill Fab Scale Down: Product Discontinuation Notification

### Discontinuation Information

Previously, NXP Semiconductors announced the decision to scale down operations at our Oak Hill Fab, located in Austin, Texas, through General Notification 202009009G: "NXP Semiconductors Will Scale Down Operations at Oak Hill Fab", Issued 11-Sep-2020.

Continuing this process, NXP Semiconductors now announces Product Discontinuation Notification 202009028DN for the identified Oak Hill Fab End-of-Life products. These products consist of legacy devices and technologies at obsolete life cycles. NXP may have alternative products that can be used to replace the existing design, though these are not drop in replacements.

Please see attached for product specific discontinuation details, including product Last Order Date, Last Delivery Date, and potential replacement options.

Your assistance with early Last Order quantity assessment and input is imperative to ensuring order fulfillment and satisfaction.

Please consult with your NXP Sales Team if any questions or concerns.

This Discontinuation Notice confirms to your company that NXP Semiconductors (NXP) is now discontinuing the manufacture of a number of its integrated circuits and discrete semiconductors listed in the Part Type Affected list included with this notification. In accordance with NXP product discontinuation policy and JEDEC EIA/JESD48, we are hereby giving notice of these product changes so that Digi-Key can adjust their product purchasing records, or make any final lifetime purchases of the discontinued products that can still be supplied by NXP.

While this Discontinuation Notice contains a number of NXP discontinued end-of-life Product Types, the Part Types Affected (PTA) list represents a small percentage of NXP overall semi-conductors product portfolio. Some of these discontinued products have had little to no recent sales history or they are at the end-of-life (EOL) stage. The PTA list may also cover a number of versions or selections of the same basic Product Type.

We regret the inconvenience and impact this notice may cause. NXP Semiconductors' sales, marketing and distribution personnel stand ready to assist you in placing Digi-Key's final orders, or in providing product information you require. On behalf of NXP Semiconductors, we appreciate your understanding and

assistance in helping us to help you minimize the impact of this product discontinuation on your company. We look forward to NXP Semiconductors' continued support of your company's semiconductor requirements in the years to come.

## Related Notifications

Notification	Issue Date	Effective Date	Title
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202009009G	11-Sep-2020		NXP Semiconductors Will Scale Down Operations at Oak Hill Fab
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## Terms and Conditions

### Last Time Buy Terms and Conditions

Carefully review this information and notify your purchasing offices and buyers to place your company's final purchases for available discontinued products with NXP as soon as possible according to the following last time buy terms and conditions.

#### GENERAL:

Last time ordering conditions may vary by product. Refer to Parts Types Affected List. The Last Time Buy Date automatically expires when the final available discontinued part type inventory quantity or production unit has been scheduled and/or sold by NXP.

#### 1. DELIVERY DATES:

Last time delivery conditions may vary by product. Refer to the DN Parts Affected List. NXP final delivery date(s) may be affected by limited supply conditions.

#### 2. ORDER PLACEMENT:

Discontinued product orders placed with NXP are to be clearly identified as a "Last Time Buy" order. Each order must: (a) reference NXP Discontinuation Notice that applies (b) contain your company's requested delivery dates per this notice; (c) be within the minimum order quantity requirements in an existing volume purchase agreement or meet NXP standard minimum order policy; and (d) otherwise conform to all other applicable conditions in this notice.

#### 3. PRICING:

The unit sales price for purchase of the available discontinued products covered by this notice will be as follows:

- a.) If a current signed volume purchase agreement is on file in NXP contracts-legal department, the unit price will be the effective agreement part type unit price for any unordered product quantities covered by such agreement. For quantities beyond the applicable unordered volume agreement quantity, the unit price will be subject to negotiation.
- b.) If a valid offer-to-sell standalone quote is still in effect during the last time ordering period, the unit price shall remain as originally quoted by NXP for the offered part type quantities until the quote has expired, or until the quoted quantities have been purchased.
- c.) Where a volume purchase agreement or a NXP standalone quote is not in effect, the product unit price will be subject to NXP individual price quotation of your company's last time buy requirements.

#### 4. ACKNOWLEDGEMENT & DELIVERY:

NXP will acknowledge (Confirm) each acceptable discontinued product order in writing or by electronic data interchange ("EDI"), and NXP will use its good faith efforts to meet your company's requested delivery date(s) wherever possible. However, NXP confirmed delivery date(s) are deemed to be approximate because of the special circumstances associated to last time product manufacturing conditions.

#### 5. ORDER ACCEPTANCE/CHANGECONDITIONS:

- a) NXP will accept last time discontinued products orders from your company as "Firm and Final". As such, these discontinued products orders will not be subject to reschedule, cancellation, or termination by your company without NXP prior written authorization and payment of termination charges for the ordered discontinued products at the full product unit sales price.
- b) NXP reserves its right to make changes in NXP confirmed scheduled delivery dates, or to terminate any remaining undelivered quantities of your company's last time buy order(s), at any time, due to changes in NXP last time manufacturing capabilities, or for commercially impracticable circumstances, which makes

delivery not feasible.

#### 6. QUANTITIES:

The following priority supply conditions apply to final buy quantities for available discontinued products.

- a) FIRST: The quantities in any existing unfilled orders and contracts acknowledged by NXP will be honored, then
- b) NEXT: The unfilled quantities in any volume agreement(s) or quantities in unexpired standalone quote(s) will be accepted, and
- c) FINALLY: NXP shall, where possible, reasonably accept additional quantities of discontinued product order quantities that NXP quotes based upon your company's identified requirements.

IN THE EVENT OF CONFLICT FOR LIMITED AVAILABILITY DISCONTINUED PRODUCTS, THE QUANTITIES FOR NXP CUSTOMERS, OR NXP DISTRIBUTORS, ORDERS WILL BE DETERMINED BY NXP ON A "FIRST-COME FIRST-SERVE BASIS". THESE DISCONTINUED PRODUCTS ORDER QUANTITIES WILL ALSO BE SUBJECT TO NXP AVAILABLE INVENTORY AND REMAINING MANUFACTURING CAPACITY FOR THE DISCONTINUED PRODUCTS.

#### 7. DISTRIBUTION SALES:

If you are a NXP distributor customer, please contact your authorized NXP distributor sales representative for assistance in planning and making any last time purchase(s) of available discontinued products. Such purchases are to be negotiated solely between your company and the distributor. You may also find additional information about NXP discontinued products on our discontinued products Internet web site at: <http://www.nxp.com/products/eol/> or Extranet site link

#### 8. LIMITED WARRANTY:

All discontinued product orders subject to this notice shall carry (a) NXP standard limited warranty as contained in NXP order acknowledgement or confirmation form, or (b) the applicable warranty set forth in a duly executed formal contract between NXP and your company; provided that:

- a) NXP will accept all valid discontinued product warranty claims for credit only, unless a replacement order is otherwise agreed to by NXP and the replacement product(s) can still be manufactured or otherwise delivered from NXP remaining product inventory; and
- b) The applicable warranty period for making any return claims for discontinued products subject to this notice will be no longer than ninety (90) days following final delivery date of the discontinued products; and
- c) Any return claims must be made under NXP current Return Material Authorization ("RMA") procedures.
- d) Except for NXP special distributor stock rotation policy returns only, there is no restocking of purchased discontinued product quantities allowed by NXP from its customers or from its distributors.

#### **Disclaimer and Additional Provisions**

Except as provided for elsewhere in this notice, the applicable terms and conditions of sale for NXP discontinued products will be the unmodified standard terms and conditions in NXP order acknowledgement or order confirmation form, incorporated herein in its entirety by this reference. Otherwise, the applicable, the terms and conditions contained in a duly signed contract in force between our companies shall apply.

NXP SEMICONDUCTORS ACCEPTS NO LIABILITY FOR EXCESS REPROCUREMENT COSTS, LABOR COSTS, OR LIABILITY FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES WHATSOEVER ASSOCIATED TO NXP DISCONTINUED PRODUCTS, OR ASSOCIATED WITH NXP FINAL MANUFACTURE AND PERFORMANCE AGAINST ANY LAST TIME BUY ORDERS RELATED TO THE DISCONTINUED PRODUCTS COVERED BY THIS NOTICE.

#### **Discontinued Product Terminology: Part Types Affected List**

- **Orderable Part Number**  
NXP Part Number which includes part type and packing designator as referenced on the Customer order.
- **Customer Part Number**  
Customer Part Number as referenced in the NXP 3 year order/ship history.
- **Discontinued Part Number**  
NXP part number as carried by NXP Product Data Management database (Enovia)
- **Discontinuation Type**  
Short description of the withdrawal status. Products listed as Full Withdrawal indicate that all

Product Types with similar functionality are being discontinued. Products listed as Version Withdrawal indicates that a specific version or package is being discontinued but at least one other Product Type with similar functionality is still available.

- **Availability Non-Manufacturable:**  
Some Product Types may not be available and are identified as Non-Manufacturable. NXP can no longer produce these products and no supply or inventory exists for various reasons such as not acceptable product quality or unique manufacturing restrictions. Non-Manufacturable products cannot have a last time buy for commercially impracticable reasons.
- **Availability Limited:**  
For Limited Availability Product Types, a unique manufacturing or limited inventory or time condition exists. Where Limited Availability coded products are still manufacturable, a limited quantity of the Product Type has been, or will be, produced within NXP remaining capacity to meet our customers, or our distributors, commercially reasonable last time buy orders. Limited Availability products will be scheduled by NXP on a first-come/first-serve basis until the remaining Product Type manufacturing capacity or inventory is depleted. When the inventory for the Limited Availability Product Type is depleted, no additional last time buy order Product Type quantities can be supplied by NXP.
- **Availability Standard End of Life:**  
Standard End of Life Products Types have no known supply restriction and NXP customers and distributors' last time buy orders can be met according to NXP discontinued product (DOD) policy.
- **Source**  
Sole Source indicates that the Product Type being discontinued is unique to NXP Semiconductors. Multiple Sources indicates that the Product Type being discontinued could be available through other suppliers.
- **Discontinued Part Last Time Buy Date**  
Date indicates the last date NXP will accept an order on the discontinued product. NXP allows a six (6) month last order period for discontinued products. Last Time Buying is not possible for "Non-Manufacturable" discontinued products. "Limited availability" discontinued products are subject to the remaining product inventory, or limited manufacturing conditions set forth in the DN notice. Ordering shall be limited on a first-come/first serve condition until the remaining product capacity or inventory has been sold. All Last Time Buy order periods are measured from the Issue Date of the Discontinuation Notice.
- **Discontinued Part Last Time Delivery Date**  
Date indicates the last date NXP will ship a discontinued product. Unless a Non-Manufacturable or Limited Availability condition and shorter time period is indicated in the PTA, NXP allows a twelve (12) month delivery time period for discontinued products measured from the Issue Date of the Discontinuation Notice. (For some products, NXP may extend the Last Time Delivery date beyond the standard horizon.)
- **Discontinued Part 12nc**  
NXP 12nc number represents the NXP master internal manufacturing control identification number for reference to each part type, version of the part type or packaging/conditioning (3 last digits), being discontinued
- **Discontinued Part Description**  
NXP short Product Type description or a brief Product Type description of the discontinued product supplied by the responsible Product Group.
- **Package Name:**  
Discontinued Part Number Package Type description
- **Replacement Part Number**  
Any known NXP replacement product for the discontinued NXP type number is reference only information. NXP replacement part designation is NOT intended as a statement of warranty, or an indication that the listed replacement product meets the same form, fit, function or performance of the discontinued product until such time as NXP customers or distributors qualify such product to their specifications.
- **Replacement 12nc**  
Any known NXP replacement 12nc for the discontinued NXP type number is reference only

information. NXP replacement part designation is NOT intended as a statement of warranty, or an indication that the listed replacement product meets the same form, fit, function or performance of the discontinued product until such time as NXP customers or distributors qualify such product to their specifications.

- **Remarks**

Additional information about the discontinued products

#### Reason for Discontinuance

Oak Hill Fab Scale Down

#### Contact and Support

For all inquiries regarding the ePCN tool application or access issues, please contact NXP "Global Quality Support Team".

For all Quality Notification content inquiries, please contact your local NXP Sales Support team.

For specific questions on this notice or the products affected please contact our specialist directly:

**Name** Steve Johnson  
**Position** Distribution Marketing - RF Power  
**e-mail address** Steve.Johnson@NXP.com

At NXP Semiconductors we are constantly striving to improve our product and processes to ensure they reach the highest possible Quality Standards.

Customer Focus, Passion to Win.

NXP Quality Management Team.

#### About NXP Semiconductors

NXP Semiconductors N.V. (NASDAQ: NXPI) provides High Performance Mixed Signal and Standard Product solutions that leverage its leading RF, Analog, Power Management, Interface, Security and Digital Processing expertise. These innovations are used in a wide range of automotive, identification, wireless infrastructure, lighting, industrial, mobile, consumer and computing applications.

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Discontinued Orderable Part Number	Discontinued Part 12NC	Discontinued Part Number	Discontinued Part Description	Last Time Buy Date	Last Time Delivery Date	Replacement Orderable Part#	Replacement part 12NC	Replacement Part Number	Replacement Part Description	Product Line
MMRF2005GNR1	935316175528	MMRF2005GN	HV7C 900MHZ TO270WB16G	1-Dec-2021	31-May-2022	A2109V0030GNR1	935337252528	A2109V0030G	AF3IC 900MHz TO270WB15G	RF
MMRF2005NR1	935324908528	MMRF2005N	HV7C 900MHZ TO270WB16	1-Dec-2021	31-May-2022	A2109V0030NR1	935336942528	A2109V0030N	AF3IC 900MHz TO270WB15	RF
MMRF2006NT1	935322156528	MMRF2006NT1	HV7C 2GHz 20W PQFN8X	1-Dec-2021	31-May-2022	A2100D00NR1	935313237528	A2100D00N	AF7IC 2GHz 20W TO270WB17	RF
MMRF1022HSR5	935323695178	MMRF1022HS	2.1GHz NI1230S-4L2L	1-Dec-2021	31-May-2022	A3T21H360WZ3SR6	935354511128	A3T21H360WZ3S	2.1GHz 360W ACP1230S-4L2	RF
MMRF1023HSR5	935322369178	MMRF1023HS	2.3GHz NI1230S-4L2L	1-Dec-2021	31-May-2022	A3T23H300WZ3SR6	935374249128	A3T23H300WZ3S	2.3GHz 300W ACP1230S-4L2	RF
MMRF1517NT1	935310293515	MMRF1517NT1	RF LDMOS FET PLD1.5N	1-Dec-2021	31-May-2022	AFM907NT1	935346918515	AFM907NT1	QFN 4x6 16P	RF
AF705M5003NT1	935312585147	AF705M5003N	4W 7.5V LANDMOBILE SOT89A	1-Dec-2021	31-May-2022	AF705M5004N1	93531307147	AF705M5004N	4W 7.5V LANDMOBILE SOT89A	RF
MMRF1535FNT1	935310275528	MMRF1535FNT1	RF LDMOS FET TO-272N	1-Dec-2021	31-May-2022	AF705M5031NR1	935325665528	AF705M5031NR1	MV9 UHF 13.6V TO270-2	RF
MMRF2007GNR1	935312376528	MMRF2007GNR1	HV8C 70W TO270WB16G	1-Dec-2021	31-May-2022	M08C970NR1	935314505528	M08C970NR1	HV8C 70W TO270WB16G	RF
MMRF2007NR1	935315474528	MMRF2007NR1	HV8C 70W TO270WB16	1-Dec-2021	31-May-2022	M08C970NR1	935317375528	M08C970NR1	HV8C 70W TO270WB16	RF
MHT1108NT1	935317042515	MHT1108NT1	2.4GHz 12.5W DFN 4x6-16	1-Dec-2021	31-May-2022	MHT7021NT1	935361937528	MHT7021NT1	2.5 GHz 12W 28V PQFN8X	RF
MMRFV118HSR5	935309981178	MMRFV118H	VHV6 130MHz 1000W NI1230	1-Dec-2021	31-May-2022	MMRF1K50HSR5	935313261178	MMRF1K50H	VHV6E 230MHz NI1230S-4L	RF
MMRF242450NR3	935320598528	MMRF242450N	2450MHz 250W 32V OMT80-2	1-Dec-2021	31-May-2022	MMRF24G300HSR5	935389771178	MMRF24G300HSR5	GaN N1780S-4L	RF
MMRF24300NR3	935323808528	MMRF24300N	300W MICROWAVE OMT80-2	1-Dec-2021	31-May-2022	MMRF24G300HSR5	935389771178	MMRF24G300HSR5	GaN N1780S-4L	RF
MMRF24300NR3	935331335528	MMRF24300GN	300W MICROWAVE OMT80-2	1-Dec-2021	31-May-2022	MMRF24G300HSR5	935389771178	MMRF24G300HSR5	GaN N1780S-4L	RF
MMRF1005HSR5	935315357178	MMRF1005HS	VHV6 250W 50V N1780HS	1-Dec-2021	31-May-2022	MMRFV13350NR5	935316089578	MMRFV13350NR5	VHV8 900MHz 95W OMT80-4	RF
MMRFV13250HSR5	935323152178	MMRFV13250HS	VHV6 250W 50V N1780HS	1-Dec-2021	31-May-2022	MMRFV13350NR5	935316089578	MMRFV13350NR5	VHV8 900MHz 95W OMT80-4	RF
MMRF21350NR1	935318842528	MMRFV2150N	VHV6 150W TO-270WB-4N	1-Dec-2021	31-May-2022	MMRF6VP5150NR1	935312397528	MMRF6VP5150N	VHV6E 150W ISM TO270WB4	RF
MMRF1318NR1	935320482528	MMRF1318N	VHV6 300W TO270WB4	1-Dec-2021	31-May-2022	MMRF6VP5300NR1	935312013528	MMRF6VP5300N	VHV6E 300W ISM TO270WB4	RF
MMRF1016HSR5	935322153178	MMRF1016H	VHV6 600W 225MHz NI1230	1-Dec-2021	31-May-2022	MMRF6VP5600HSR5	935310538178	MMRF6VP5600H	VHV6 600W 50V NI1230H	RF
MMRFV11K6GSR5	935314866178	MMRFV11K6G	VHV6 130MHz 1000W NI1230	1-Dec-2021	31-May-2022	MMRF6VP61K25GSR5	93531183178	MMRF6VP61K25G5	VHV6 1.25kW ISM NI1230G5	RF
MMRF1306HSR5	93532029178	MMRF1306HS	VHV6 1.25kW ISM NI1230HS	1-Dec-2021	31-May-2022	MMRF6VP61K25HSR5	935314411178	MMRF6VP61K25H	VHV6 1.25kW ISM NI1230H	RF
MMRFV2010GNR1	935321298528	MMRFV2010GNR1	VHV6 10W TO270-2GN	1-Dec-2021	31-May-2022	MMRF6VS25GNR1	935314771528	MMRF6VS25GNR1	VHV6E 25W50V TO270-2G	RF
MMRFV2010NR1	935309669528	MMRFV2010NR1	VHV6 10W TO270-2N	1-Dec-2021	31-May-2022	MMRF6VS25NR1	935319933528	MMRF6VS25NR1	VHV6E 25W50V TO270-2	RF
MMRF1012NR1	935320392528	MMRF1012NR1	VHV6 10W TO270-2N	1-Dec-2021	31-May-2022	MMRF6VS25NR1	935319933528	MMRF6VS25NR1	VHV6E 25W50V TO270-2	RF
MMRF6VP8600HSR5	935321656178	MMRF6VP8600H	VHV6 600W 50V NI1230H	1-Dec-2021	31-May-2022	MMRF6VP8600HSR5	935318365178	MMRF6VP8600H	VHV8 600W 50V NI1230H-4S	RF
MMRF6VP8600HSR5	935310856178	MMRF6VP8600HS	VHV6 600W 50V NI1230S	1-Dec-2021	31-May-2022	MMRF6VP8600HSR5	935345461178	MMRF6VP8600HS	VHV8 600W 50V NI1230S-4S	RF
MMRF2011NT1	935336807528	MMRF2011NT1	HV7 900MHz 15W PQFN8X	1-Dec-2021	31-May-2022	MW71C915NT1	935317147528	MW71C915NT1	HV7 900MHz 15W PQFN8X	RF
MMRF1315NR1	935323557528	MMRF1315NR1	HV6E 60W TO270-2N FET	1-Dec-2021	31-May-2022					RF
MMRF1518NT1	935309516515	MMRF1518NT1	RF LDMOS FET PLD1.5N	1-Dec-2021	31-May-2022					RF
MMRFV3090NR1	935321513528	MMRFV3090N	VHV6 860MHz 90W TO270WB4	1-Dec-2021	31-May-2022					RF
MMRFV3090HSR5	935313959178	MMRFV3090H	VHV6 450W 860MHz NI1230H	1-Dec-2021	31-May-2022					RF
MMRF1535NT1	935317208528	MMRF1535NT1	RF LDMOS FET TO-272N	1-Dec-2021	31-May-2022					RF
MMRF1513NT1	935317216515	MMRF1513NT1	RF LDMOS FET PLD1.5	1-Dec-2021	31-May-2022					RF
MMRFV3090NR1	935310252528	MMRFV3090NR1	VHV6 860MHz 90W TO272WB4	1-Dec-2021	31-May-2022					RF
MMRFV3091NR5	935314619578	MMRFV3091NR5	VHV6 50V 4.5W TO270WB4	1-Dec-2021	31-May-2022					RF
MMRFV3091NR5	935319809578	MMRFV3091NR5	VHV6 50V 4.5W TO272WB4	1-Dec-2021	31-May-2022					RF
MMRF1018NR1	935320384528	MMRF1018N	VHV6 860MHz 90W TO270WB4	1-Dec-2021	31-May-2022					RF
MMRF1018NR1	935324763528	MMRF1018NR1	VHV6 860MHz 90W TO272WB4	1-Dec-2021	31-May-2022					RF