



Final Product/Process Change Notification

Document #:FPCN27440X

Issue Date: 17 Aug 2026

Title of Change:	Change of wirebond location and material for SWIR 2MP products.	
Proposed First Ship date:	24 Nov 2026 or earlier if approved by customer	
Contact Information:	Contact your local onsemi Sales Office	
PCN Samples Contact:	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.	
Additional Reliability Data:	Contact your local onsemi Sales Office	
Type of Notification:	This is a Final Product/Process Change Notification (FPCN) sent to customers. FPCNs are issued 90 days prior to implementation of the change. onsemi will consider this change accepted, unless an inquiry is made in writing within 30 days of delivery of this notice. To do so, contact PCN.Support@onsemi.com	
Marking of Parts/ Traceability of Change:	Changed material can be identified by Date Code	
Change Category:	Assembly Change	
Change Sub-Category(s):	Manufacturing Site Transfer, Manufacturing Process Change	
Sites Affected:		
onsemi Sites	External Foundry/Subcon Sites	
onsemi Burlington, Canada	None	
Description and Purpose:		
onsemi wishes to inform customers of the transfer of 2MP SWIR wire bond from the current Durham Micross Foundry to onsemi Burlington Ontario site.		
The Durham facility will no longer be available after June 2026. This transfer will include a transition to new wire bond equipment and bond wire size.		
	Before Change Description	After Change Description
Wire Bond Tool	West Bond	ASMPT Eagle Aero Bonder
Bond Wire	1.3 mil Au	1.0 mil Au
Assembly Site	Micross Site, Durham NC, USA	Burlington Site, Ontario, Canada



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Reliability Data Summary:

Product: ACUROS-1920-USB3-001

Package: Fully packaged camera module

Qualification Items/Steps	Test /Condition	Wafers / Sample # / Lots	Success Criteria	Results/Fails
In-Process Monitors (pull test on dummy samples)	40 wires (10 wires each corner), zero-hour test post wirebond	3 lots of 3 die. (1 die for destructive wire pull 2 for electrical testing.)	≥ 1.67 Cpk Pull test above 3 gram/force	0/9
Physical Analysis (XSEM)		1 sample POR/1 sample Burlington	Control & Exp samples match	PASS
Visual Inspection	100% post wirebond	3 lots of 3 die	•Zero missing wires	0/9
			•Zero wire lift	0/9
			•Zero incorrect bond positions	0/9
Inline Defect Inspection (flame off errors)	100% post wirebond	3 lots of 3 die	All wires bonded.	0/9
Temp cycle	-50 to 85C, 500Cycles	3 lots of 3 die	No failures attributed to wire bond fatigue or signal failure	0/9

Electrical Characteristics Summary:

Electrical characteristics are not affected.

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [**PCN Customized Portal**](#).

Current Part Number	New Part Number	Qualification Vehicle
ACUROS-1920-GIGE-001	#NONE	ACUROS-1920-USB3-001
ACUROS-1920-GIGE-003	#NONE	ACUROS-1920-USB3-001
ACUROS-1920-GIGE-X01-KLA	#NONE	ACUROS-1920-USB3-001
ACUROS-0640-GIGE-001	#NONE	ACUROS-1920-USB3-001
ACUROS-0640-GIGE-003	#NONE	ACUROS-1920-USB3-001
ACUROS-0640-GIGE-X03-MKS	#NONE	ACUROS-1920-USB3-001
ACUROS-0640-GIGE-X04-EVG	#NONE	ACUROS-1920-USB3-001
ACUROS-0640-USB3-001	#NONE	ACUROS-1920-USB3-001
ACUROS-0640-USB3-003	#NONE	ACUROS-1920-USB3-001
ACUROS-0640-USB3-X03-DR	#NONE	ACUROS-1920-USB3-001
ACUROS-1280-GIGE-001	#NONE	ACUROS-1920-USB3-001
ACUROS-1280-GIGE-003	#NONE	ACUROS-1920-USB3-001
ACUROS-1280-GIGE-X03-CAL	#NONE	ACUROS-1920-USB3-001



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ACUROS-1280-USB3-001	#NONE	ACUROS-1920-USB3-001
ACUROS-1280-USB3-X03-DR	#NONE	ACUROS-1920-USB3-001
ACUROS-1280-USB3-X03-TL	#NONE	ACUROS-1920-USB3-001
ACUROS-1280-USB3-X04-DR	#NONE	ACUROS-1920-USB3-001
ACUROS-1920-USB3-X04-DR	#NONE	ACUROS-1920-USB3-001
ACUROS-1920-USB3-X03-DR	#NONE	ACUROS-1920-USB3-001
ACUROS-1920-USB3-003	#NONE	ACUROS-1920-USB3-001
ACUROS-1920-USB3-001	#NONE	ACUROS-1920-USB3-001
ACUROS-1920-GIGE-X04-DR	#NONE	ACUROS-1920-USB3-001
ACUROS-1920-GIGE-X03-DR	#NONE	ACUROS-1920-USB3-001
ACUROS-1280-USB3-004	#NONE	ACUROS-1920-USB3-001
ACUROS-1280-USB3-003	#NONE	ACUROS-1920-USB3-001
ACUROS-1280-GIGE-X04-DR	#NONE	ACUROS-1920-USB3-001
ACUROS-1280-GIGE-X03-DR	#NONE	ACUROS-1920-USB3-001
ACUROS-0640-GIGE-X04-DR	#NONE	ACUROS-1920-USB3-001
ACUROS-0640-GIGE-X03-DR	#NONE	ACUROS-1920-USB3-001