

Product Change Notification		Date August 19, 2019
Product	Digi XBee S2C PRO	

Reason for Change

<input type="checkbox"/> Technical Requirement	<input checked="" type="checkbox"/> Product Transition
<input type="checkbox"/> Customer Requirement	<input type="checkbox"/> Product Discontinuation
<input type="checkbox"/> Quality Improvement	<input type="checkbox"/> Product Enhancement
	<input type="checkbox"/> Other (Brand Change)

Description of change	<p>The Digi XBee S2C PRO product line will be phased out due to the obsolescence of a critical component (RF power amplifier) with no viable replacement. The recently introduced Digi XBee 3 is a suitable drop-in replacement and is a form, fit, and functional equivalent. In addition, the new XBee3 family provides several benefits over S2C PRO:</p> <ul style="list-style-type: none"> • Increased sensitivity enabling better RF performance and range (103 dBm vs 101 dBm on S2C) • Lower operating current, ideal for battery applications (15 mA vs 31 mA on S2C Receive current) • Programmability with MicroPython for edge intelligence, process data without needs for separate microcontroller • Bluetooth low energy support for local configuration via a mobile device/Application, XCTU functions with a portable device • New Micro form-factor option (13x19x2mm) enabling smaller designs <p>The XBee S2C (non-PRO) variants do not contain the obsolete RF power amplifier and are not affected by this EOL. Digi plans to continue normal production of the XBee S2C (non-PRO) with no plans for EOL.</p>
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Affected Part Numbers	See Appendix
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Timing of Change	<ul style="list-style-type: none"> • Last time buy orders must be received by June 15th, 2020 • Last time Shipments will be completed by March 1st, 2021
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Technology Introduction	2007
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Quality Issues	None
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Notes	<p>XBee 3 Migration Guidelines</p> <ul style="list-style-type: none"> • Customers will have to recertify their end product for FCC Part 15(unintentional radiation) and update documentation to reflect the new XBee 3 FCC ID • The whip antenna used on the XBee S2C PRO is replaced with an on-board PCB antenna on XBee 3. This was done to improve consistency in RF performance. Digi has performed RF testing to validate performance of the PCB antenna relative to the S2C whip antenna. • Our Wireless Design services group are available to assist customers in the transition. WDS capabilities include engineering expertise focused on custom product development,
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	<p>prototyping, antenna design, and certification support. Please contact WDS at Sales.WDS@digicom</p> <p>Migration Guides DigiMesh: https://www.digi.com/resources/documentation/digidocs/pdfs/Xbee3_DigiMesh_Migration.pdf ZigBee: https://www.digi.com/resources/documentation/DigiDocs/pdfs/90002259.pdf 802.15.4: https://www.digi.com/resources/documentation/digidocs/pdfs/90002279.pdf</p> <p>*The XBee 3 modules are configured by default for ZigBee protocol operation. The modules can be re-configured (programmatically) for 802.15.4 or DigiMesh in manufacturing via XCTU or via software APIs from an external host microcontroller.</p> <p>Sample availability Please contact your local Digi Sales Rep or preferred Distribution Partner.</p> <p>Additional Information If you have questions about this notice please contact your sales representative or our technical support department via email at tech.support@digicom or by telephone at 952-912-3444.</p>
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Authorization	Jim Pause, Product Manager, Digi International
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Appendix

Part Number	Description	* Digi XBee3 Replacement number	Description
XBP24CAPIS-001	XBee-PRO S2C 802.15.4, 2.4GHz, SMT (PCB Ant)	XB3-24Z8PS	XBee3 PRO,2.4 GHz ZB 3.0, PCB Ant, SMT
XBP24CAPIT-001	XBee-PRO S2C 802.15.4 , 2.4GHz, TH (PCB Ant)	XB3-24Z8PT	XBee3 PRO - 2.4 GHz ZB 3.0, PCB Antenna, TH MT
XBP24CARIS-001	XBee S2C 802.15.4, 2.4GHz, SMT (RF Pad)	XB3-24Z8RS	XBee3 PRO,2.4 GHz ZB 3.0, RF Pad Ant, SMT
XBP24CASIT-001	XBee-PRO S2C 802.15.4, 2.4GHz TH (RPSMA)	XB3-24Z8ST	XBee3 - 2.4 GHz ZB 3.0, SMA Antenna, TH MT
XBP24CAUIS-001	XBee-PRO S2C 802.15.4, 2.4GHz, SMT (U.FL)	XB3-24Z8US	XBee3 PRO,2.4 GHz ZB 3.0, U.FL Ant, SMT
XBP24CAUIT-001	XBee-PRO S2C 802.15.4, 2.4GHz, TH (U.FL)	XB3-24Z8UT	XBee3 - 2.4 GHz ZB 3.0, U.FL Antenna Connector, TH MT
XBP24CAWIT-001	XBee-PRO S2C 802.15.4, 2.4GHz, TH (Wire Ant)	XB3-24Z8PT	XBee3 PRO - 2.4 GHz ZB 3.0, PCB Antenna, TH MT
XBP24CDMPIS-001	XBee-PRO S2C DigiMesh, 2.4GHz,SMT (PCB Ant)	XB3-24Z8PS	XBee3 PRO,2.4 GHz ZB 3.0, PCB Ant, SMT
XBP24CDMPIT-001	XBee-PRO S2C DigiMesh, 2.4GHz, TH (PCB Ant)	XB3-24Z8PT	XBee3 PRO - 2.4 GHz ZB 3.0, PCB Antenna, TH MT
XBP24CDMRIS-001	XBee -PRO S2C DigiMesh, 2.4GHz SMT (RF Pad)	XB3-24Z8RS	XBee3 PRO,2.4 GHz ZB 3.0, RF Pad Ant, SMT
XBP24CDMSIT-001	XBee-PRO S2C DigiMesh, 2.4GHz TH (RPSMA)	XB3-24Z8ST	XBee3 PRO - 2.4 GHz ZB 3.0, SMA Antenna, TH MT
XBP24CDMUIS-001	XBee -PRO S2C DigiMesh, 2.4GHz, SMT (U.FL)	XB3-24Z8US	XBee3 PRO,2.4 GHz ZB 3.0, U.FL Ant, SMT

Part Number	Description	* Digi XBee3 Replacement number	Description
XBP24CDMUIT-001	XBee-PRO S2C DigiMesh, 2.4GHz, TH (U.FL)	XB3-24Z8UT	XBee3 - 2.4 GHz ZB 3.0, U.FL Antenna Connector, TH MT
XBP24CDMWIT-001	XBee-PRO S2C DigiMesh, 2.4GHz, TH (Wire Ant)	XB3-24Z8PT	XBee3 PRO - 2.4 GHz ZB 3.0, PCB Antenna, TH MT
XBP24CZ7PIS-004	XBEE-PRO,ZB S2C SMT (ZigBee PRO Feature Set), 63mW, PCB antenna, 250000 bps	XB3-24Z8PS	XBee3 PRO,2.4 GHz ZB 3.0, PCB Ant, SMT
XBP24CZ7PISB003	Programmable XBee-PRO ZB SMT (PCB Antenna)	XB3-24Z8PS	XBee3 PRO,2.4 GHz ZB 3.0, PCB Ant, SMT
XBP24CZ7PIT-004	XBee-PRO ZB S2C TH (PCB Antenna)	XB3-24Z8PT	XBee3 PRO - 2.4 GHz ZB 3.0, PCB Antenna, TH MT
XBP24CZ7PITB003	Programmable XBee-PRO ZB S2C TH (PCB Antenna)	XB3-24Z8PT	XBee3 PRO - 2.4 GHz ZB 3.0, PCB Antenna, TH MT
XBP24CZ7RIS-004	XBEE-PRO Programmable XBee-PRO ZB S2C TH (PCB Antenna), ZB S2C SMT RF Pad AT	XB3-24Z8RS	XBee3 PRO,2.4 GHz ZB 3.0, RF Pad Ant, SMT
XBP24CZ7RISB003	XBee-PRO ZB SMT (ZigBee PRO Feature Set), 63mW, RF pad antenna, 250000 bps	XB3-24Z8RS	XBee3 PRO,2.4 GHz ZB 3.0, RF Pad Ant, SMT
XBP24CZ7SIT-004	XBee-PRO ZB S2C TH (RPSMA Antenna)	XB3-24Z8ST	XBee3 PRO - 2.4 GHz ZB 3.0, SMA Antenna, TH MT
XBP24CZ7SITB003	Programmable XBee-PRO ZB S2C TH (RPSMA Antenna)	XB3-24Z8ST	XBee3 PRO - 2.4 GHz ZB 3.0, SMA Antenna, TH MT
XBP24CZ7UIS-004	XBee-PRO ZB SMT (ZigBee PRO Feature Set), 63mW, U.FI ant connector, 250000 bps	XB3-24Z8US	XBee3 PRO,2.4 GHz ZB 3.0, U.FL Ant, SMT
XBP24CZ7UISB003	Programmable XBee-PRO ZB SMT (U.FL Antenna)	XB3-24Z8US	XBee3 PRO,2.4 GHz ZB 3.0, U.FL Ant, SMT
XBP24CZ7UIT-004	XBee-PRO ZB S2C TH (U.FL Antenna)	XB3-24Z8UT	XBee3 PRO - 2.4 GHz ZB 3.0, U.FL Antenna Connector TH MT
XBP24CZ7UITB003	Programmable XBee-PRO ZB S2C TH (U.FL Antenna)	XB3-24Z8UT	XBee3 PRO - 2.4 GHz ZB 3.0, U.FL Antenna Connector TH MT
XBP24CZ7WIT-004	XBee-PRO ZB S2C TH (Wire Antenna)	XB3-24Z8PT	XBee3 PRO - 2.4 GHz ZB 3.0, PCB Antenna, TH MT
XBP24CZ7WITB003	Programmable XBee-PRO ZB S2C TH (Wire Antenna)	XB3-24Z8PT	XBee3 PRO - 2.4 GHz ZB 3.0, PCB Antenna, TH MT
XKB2-Z7T-ZM	XBee-PRO ZigBee Mesh Kit	XK3-Z8S-WZM	Digi XBee3 ZigBee Mesh Kit, worldwide