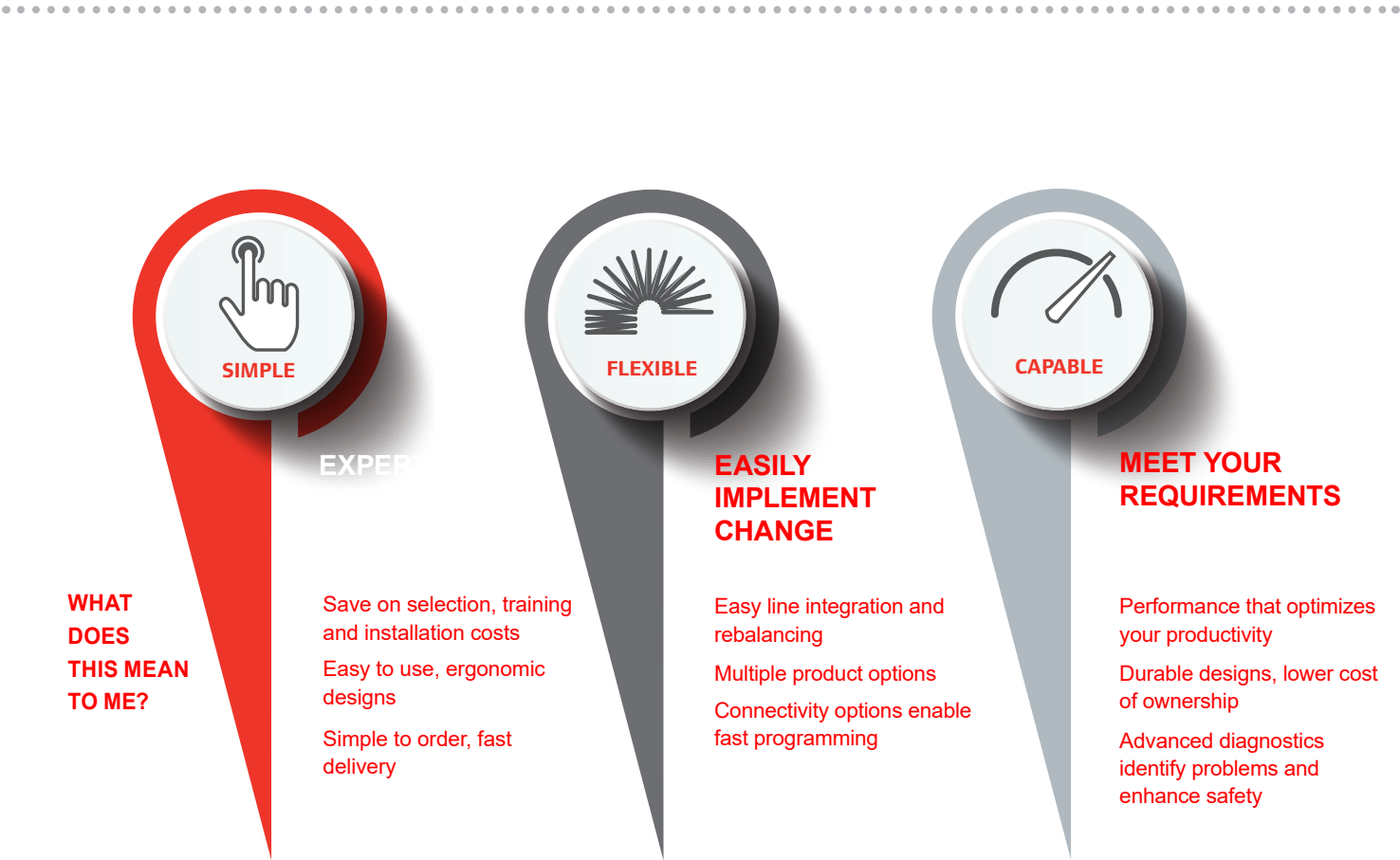




Taking total control of your fastening process doesn't have to be complicated. Our comprehensive QX Connect Series™ family of fastening systems deliver simple, flexible and capable solutions for all of your assembly requirements. No matter the industry or application, you can count on Ingersoll Rand as a trusted partner to help you get the job done right.



ICON IDENTIFIERS

Compatibility Reference



USB compatible



Insight Connect App



ETS
(Ergonomic Tightening System)



Wireless



Bluetooth compatible



CONNECTIVITY

The innovative QX Connect Series™ is simple for anyone to use. It offers flexibility because of its feature-rich configurations, and can manage everything from data and fast programming to modifications on your line. The QX Connect Series™ increases productivity and lowers costs — all at a price you can afford.

Multi-function display module for quick setup and feedback

Compact, lightweight and ergonomically balanced so the operator can work without restraints

The intuitive INSIGHT Connect app will help you stay productive & mobile on the plant floor via Bluetooth or wired connection.

Provides up to 32 fully programmable configurations on a single tool, reducing costs and workspace clutter

Fast and intuitive programming makes the tool easily adaptable to any needed changes on your assembly line

Cordless and portable, allowing for effortless movement around your facility

At the heart of every tool is the closed-loop transducer control that delivers precise torque and accurate, traceable results

Available in a variety of configurations, including pistol grip, angle wrench, multiplied, and ETS

Wireless & Bluetooth communication options enable flexible line integration, remote monitoring and simple system programming across a plant-wide network

Manage cycle data, control the process, receive system status alerts and implement configuration adjustments in real time with INSIGHTqcx™ using Ethernet, Fieldbus and digital I/O

WITH



FEATURES



THE RIGHT TOOL

The QX Connect Series™ line of products give you closed-loop control of your fastening process, and the ease of mobility with different connectivity options. Each and every tool allows for programmable tightening strategies to deliver higher quality fastened joints and a level of control that is unmatched by other solutions. The diversity of the QX Series™ lineup offers a simple, flexible and capable solution for any fastening need.

	 QXFN	 QXFD	 QXBN	 QXBD	 QXXN	 QXXD
Display & Keypad						
Bluetooth						
QXW Limitless Wireless Radio Connectivity to INSIGHTqcx™						
Wireless Zigbee 802.15.4 Capability						
Programmable with INSIGHT Connect via Bluetooth						
Programmable with INSIGHT Connect and INSIGHT qcx via USB						
ETS Optional						
Number of PSETs						

Symbol Key:
USB symbol =USB Communication
Bluetooth symbol= Bluetooth Communication
Wifi Symbol =Zigbee Communication

All models available in the following configuration:
QXF-USB Communication, No Wireless Functionality
QXB-Bluetooth Only
QXX- 802.15.4 Zigbee & Bluetooth
QXW-Wifi

CORDLESS TOOLS

QXF offers superior transducerized control and operator feedback in a way that is easy to use and simple to setup. This unique series features 32 tightening configuration that can be programmed via USB using the INSIGHT Connect app. All QXF tools have no wireless communication and can only be programmed via USB using the INSIGHT Connect app.



- 32 tightening configuration
- Transducerized for precise torque measurement
- Closed-loop control of torque, speed and degrees of rotation
- Simple to program via USB using the INSIGHT Connect app
- Visual operator feedback using green, yellow and red lights
- Programmable preventative maintenance alarms
- Maintenance indicator for troubleshooting and diagnostics
- 1200 cycles of data storage – accessible via the INSIGHT Connect app
- Comes with a Display and a No-display option
- Visual torque validation on display tool models



CORDLESS TOOLS

The versatile QXB series feature 32 tightening configurations, offering the ability to consolidate the number of tools needed in your bag or bench. The series also enhances the feedback provided from the tool by displaying the measured torque or angle results to the operator. The QXB models further add Bluetooth connectivity & program the tools via USB or wireless using the INSIGHT™ Connect app.



32

- Flexibility to utilize the same tool on multiple applications
- Program 32 PSETs configurations into one tool
- Visual torque validation on display
- Transducerized for precise torque measurement
- Closed-loop control of torque, speed and degrees of rotation
- Flexible Connectivity options with Bluetooth for simple programming using the INSIGHT Connect app or back of tool programming.
- Visual operator feedback using green, yellow and red lights
- Programmable preventative maintenance alarms
- Maintenance indicator for troubleshooting and diagnostics
- 1200 cycles of data storage



CORDLESS

The easy to use QXX has the unique ability to integrate with line control systems for error proofing and data collection. The series also allows remote monitoring and integration with standard fastening system accessories. The QXX models communicate utilizing Zigbee wireless connectivity & tool programming may also utilize the INSIGHT™ Connect App.



With INSIGHTqcx™, complete integration into plant wide Ethernet network, for increased productivity and control

Remote access and integrated data collection capability

Use of INSIGHTqcx™ enables transmission of tightening data and line control integration via Ethernet, Fieldbus or I/O

Flexibility to utilize the same tool on multiple applications

Program 32 configurations into one tool

Visual torque validation on display

Transducerized for precise torque measurement

Closed-loop control of torque, speed and degrees of rotation

Simple to program via USB cable or back of tool programming

Visual operator feedback using display screen and green and red lights

Programmable preventative maintenance alarms

Maintenance indicator for troubleshooting and diagnostics



Reducing the torque reaction in your fastening process doesn't have to be complicated. Control and ergonomics, not compromise - that is what the QX ETS is all about. The QX ETS offers all the capabilities found in the QX Connect Series™ platform, with less the torque reaction.

ETS stands for "Ergonomic Tightening System". QX + ETS delivers all the performance and control features of the standard QX Series™ precision fastneing tools, with an improved erogomic benefit. It significantly reduces the average amount of fouce experienced by the operator during the tightening process.



QX + ETS reduces average reaction force experienced by the QX Series™ user up to

63%

When ETS is Active, the operator's arm movement is limited to a series of smaller movements instead of one large movement.



ETS Active



ETS Not Active

This enables the operator to stay in control and in the "power zone", reducing the chance for injury casued by quick, excessive movement.

Ergonomically enhanced motor control algorithm significantly reduces the average force experienced by the operator during the tightening process

Red foot label provides clear indication of ETS tool identity vs standard QX tool

Continuously flashing purple light above keypad provides operator assurance that ETS is ACTIVE

All the capability of the QX platform, without the torque reaction

Common software and battery platform for simple integration

ETS features are available for all QX Connect models and available in pistol grip, low torque angle and high torque angle

Onboard 'pulse' counter supports proper optimization and application of ETS tools on ideal applications (10 pulses or less per cycle)



In addition to standard direct drive mode, each tool configuration can be independently programmed to utilize one of the three available single-parameter ETS modes, simplifying setup:

with the lowest energy pulses, is ideal for hard joints or when arm, wrist or tool angles are most difficult.

with medium energy pulses, is the best all-purpose mode.

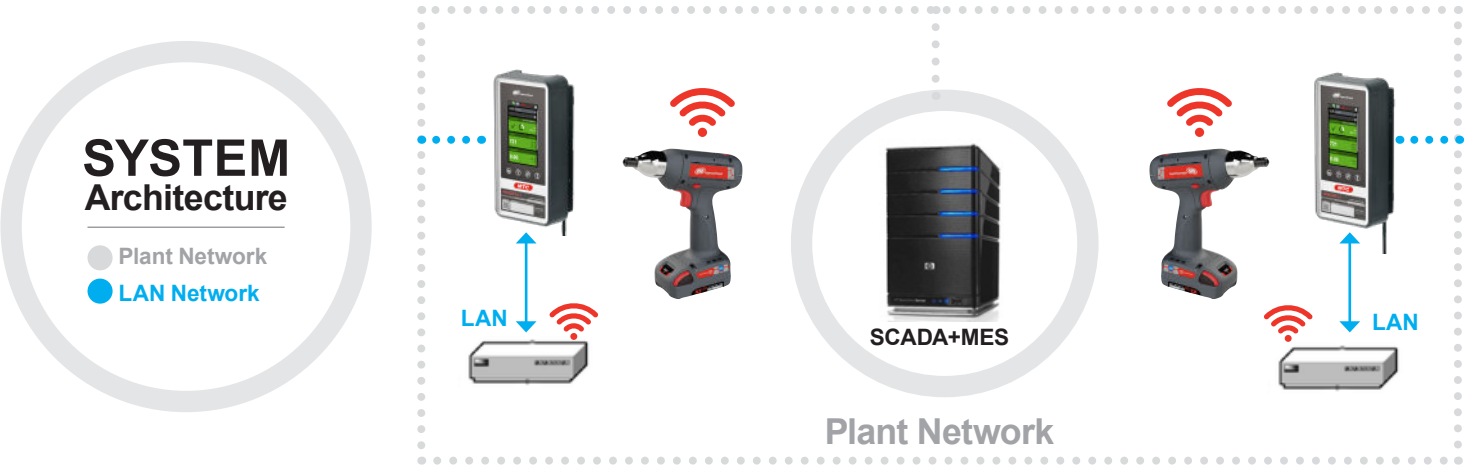
with the highest energy pulses, is the fastest mode. Ideal for soft joints or when high production rates are required.

SERIES

CONTINUOUS CONNECTIVITY. CORDLESS CONTROL.

Ingersoll Rand's QX Connect Series™ has been instrumental in helping more organizations take control of their fastening processes through its simple, flexible, and capable performance. Now, with the introduction of the QX Limitless platform we're adding 'connected, controlled, and compliant' to the bottom line. Dual-band communication technology deliver a seamless, uninterrupted connection—and across a greater communication range than other cordless fastening systems can offer.

- Connectivity • Complete Control • Confidently Secure
- Up to 10 Tools connected to Controller • Security Authentication
- Dual Band Communication • Extended Coverage on Mesh Networks



- Dual Band Communication 2.4Ghz and 5 Ghz
- 2.4 Ghz and 5Ghz Auto Switching
- Multiple Cybersecurity authentication
- Setup WIFI configuration using INSIGHT Net Desktop APP or INSIGHT™ Connect App
- Transducerized for Precise torque measurement
- Closed- loop control of torque, speed and degree of rotation
- Program 32 Configuration on one tool
- Visual Torque validation on display
- With INSIGHTqcx™ complete integration to plant wide Ethernet network, for increased productivity and control
- Connect up to 10 Tools with INSIGHTqcx™ Controller

SERIES

WHY QX Limitless?

The QX Limitless platform enhances seamless, plant-wide connectivity across a broader range where access points share the same SSID and password. Incorporating dual band communication technology, the system helps to eliminate communication breakdowns in high-traffic work zones to ensure no loss in production.

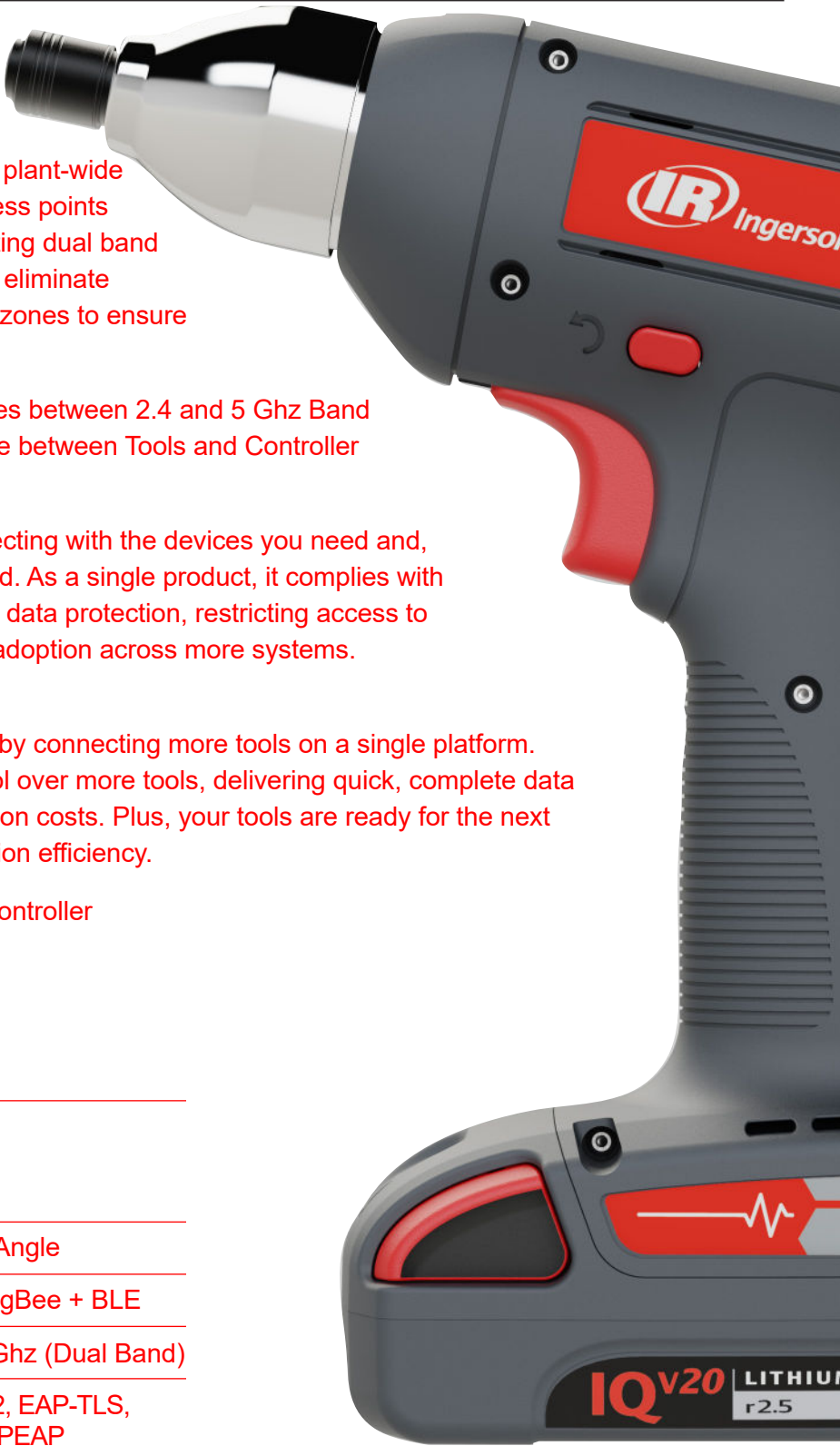
- Dual Band Communication seamlessly switches between 2.4 and 5 Ghz Band
- Reduces Limitation of Communication distance between Tools and Controller

QX Limitless delivers greater confidence, connecting with the devices you need and, just as importantly, NOT the ones you don't need. As a single product, it complies with multiple IT cybersecurity regulations, increasing data protection, restricting access to non-authorized devices, and providing ease of adoption across more systems.

The QX Limitless limits your hardware footprint by connecting more tools on a single platform. This fast, reliable system delivers greater control over more tools, delivering quick, complete data transfer between devices and reducing installation costs. Plus, your tools are ready for the next cycle much sooner, ensuring increased production efficiency.

- Connect Up to 10 Tools with INSIGHTqcx™ Controller
- Upto 40% reduction in Hardware footprint
- Faster data Transfer

Product Family	QXWD
Torque Range	0.8-80 Nm
Tool Configuration	Pistol and Angle
Wireless Communication	WLAN + ZigBee + BLE
Band	2.4 and 5 Ghz (Dual Band)
Security Authentication	WPA/WPA2, EAP-TLS, EAP TTLS,PEAP
Ergonomic Tightening System	Optional
Tool Display	Available
Communication Range	50 Meters + on 2.4 Ghz
Tools on INSIGHTqcx™	Upto 10 Tools



GEN 1

The innovative QX Series™ Cordless Torque Multiplier will reduce your fastening time and cost, while ensuring repeatable accuracy for all torque-critical joints. Designed with a premium gearbox and an efficient, time-tested closed-loop transducer, the Torque Multiplier is world-class in quality, control and programmable configurations to maximize your productivity.



A multi-function display module allowing for quick setup and feedback on every QX Series™ tool

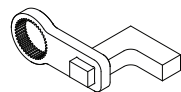
User-programmable parameters such as torque, angle and batch count reduce the number of tools needed when multiple applications are required

Maintenance indicator for troubleshooting and diagnostics

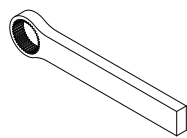
Simple programming methods make the tool easily adaptable for various applications

Pistol and angle configurations available

Ingersoll Rand® offers the following variety of reaction arms for different applications. Reaction arms are available in both 52 mm and 72 mm spline drives, depending the on the size of the gearbox.



Cranked, 45 or 90 degrees



Straight, aluminum or steel (multiple lengths available)

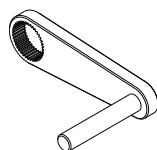
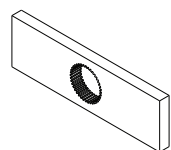
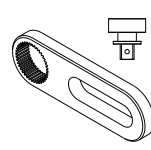


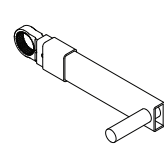
Plate and pin (multiple lengths available)



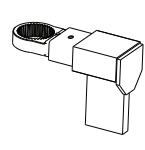
Double-sided



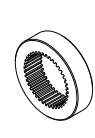
Sliding slave kit (multiple lengths available)



Sliding peg and yoke assembly (multiple lengths available)



Sliding yoke, paddle and yoke assembly (multiple lengths available)



Blank welding ring

CONNECT APP



Once installed, the INSIGHT™ Connect app can operate offline, so it functions in large facilities or other locations where Internet signal loss may be a problem, reducing downtime and maximizing ease of use. The INSIGHT Connect App is a perfect companion to complement QX Connect Series™ tools*. With Bluetooth capability, the INSIGHT Connect App can communicate wirelessly via Bluetooth with the QX Connect tools.

The INSIGHT™ Connect app will help you stay productive, mobile and in control of your fastening process. It programs any Ingersoll Rand® QX Connect Series™ tool without the need for additional technical training, special software, plant network permissions or a laptop computer. Working from a smartphone or tablet, operators can use the app to quickly program the torque and angle control configurations on these closed-loop, transducerized tools.



You can quickly perform key tasks with your mobile device, including:

- Common Setting & General Tool Setup
- Multiple Language Support
- Retrieve Cycle Log and Share via Email
- Audit Logs
- Error Codes with Description
- Program All Standard QX Platform Tool
- Clone- Back Up and Restore
- Save and Load Configurations
- Firmware Update
- Virtual tool programming
- Program Torque, Angle, Speed
- Multiple Configurations
- Multiple Step Programming
- End of Run (EOR) data on App
- Calibration and Cp/Cpk
- Programming via Bluetooth

FOR SPECIAL APPLICATIONS

The QX Pistol Special Head Adapter is the perfect solution to simply increase the flexibility of your QX pistol screwdriver. Using this adapter leverages the closed-loop capability of the QX tool to the most unique applications. The adapter helps manufacturers meet the requirements of applications where restricted access requires a custom head to reach the fastener. Common applications requiring a special head adapter, include assembling aircraft wings or installing door hinges on cars and trucks.



SIMPLE
Ready made and easy to install



FLEXIBLE
Use your QX pistol grip tool for unique applications



CAPABLE
Employ closed-loop control capabilities on specialty applications



Special Head Adapter

CONTROLLER



When trying to achieve simple manufacturing goals in a complex manufacturing world, understanding the fastening process doesn't have to be complicated. The new Ingersoll Rand® INSIGHTqcx™ is different, by design. This cordless controller is designed to be easy to use and integrate, while providing a common platform to meet your assembly requirements worldwide.

With the new Multi Tools Controller (MTC) software option, you also have the ability to control up to 6 tools with just one INSIGHTqcx™ controller. Ingersoll Rand's innovative solution with our QX Series™ & INSIGHTqcx™ MTC controller provides some of the best value available on the market, with one of the lowest total costs of ownership & cost per spindle available.

	SIMPLE EXPERIENCE	FLEXIBLE ADAPTABILITY	CAPABLE PERFORMANCE
WHAT DOES THIS MEAN TO ME?	Save on selection, training and installation costs Reduce errors and downtime Remove user dependencies	EASILY IMPLEMENT CHANGE Reduce line rebalancing costs Easy line integration Remove device dependency	MEET YOUR REQUIREMENTS Get the job right, every time Assurance via traceability Optimize your productivity
HOW DOES INGERSOLL RAND PROVIDE VALUE?	Intuitive, visual programming interface Plug and play accessories and protocols Integrated backup and recovery Bundled controller options Easy Wireless Pairing (up to 6 tools with MTC option) Tightening configurations can be shared between tools (MTC)	Web based programming use any operating system via any browser Meets current industry communication needs Integrated logic controls Easy hardware and software upgrades Onboard wireless energy scan	Touch screen interface Optimal cycle data storage: 500,000 results & trace Robust audit and system logs Advanced tightening strategies and features Onboard diagnostics Integrated statistical process controls

The controller's web-based software eliminates device dependencies and enables full programming capability with any device that can run an internet browser, including smart phones, tablets or computers. The INSIGHTqcx™ controller is easy to integrate with the manufacturing line, provides flexible logic controls for job sequencing and helps reduce line rebalancing costs through a simple and intuitive user interface.

(with MTC option)



Integrated wall mount



Configure up to 256 jobs & 32 Psets per tool



SSD card



Whiteboard & QR code



Integrated carrying handle



Holds 500,000 records for results & trace



7-in full color touch screen



System indicators
Factory connection
Wireless connection
Link status
Fault detected



Up to 6 tools per controller
Unlock Multi tool dashboard view
Upgradeable software
Backwards compatibility with INSIGHTqcx™ & QX™ tools

Controller model info on page 23



Up to 6 tools per controller
Unlock Multi tool dashboard view
Upgradeable software
Backwards compatibility with INSIGHTqcx™ & QX™ tools

Controller model info on page 23

Sku#	Tools to Pair
MTC-SW-OPT2	2
MTC-SW-OPT4	4
MTC-SW-OPT6	6
MTC-SW-OPT10	10



Up to 6 tools per controller
Unlock Multi tool dashboard view
Upgradeable software
Backwards compatibility with INSIGHTqcx™ & QX™ tools

Controller model info on page 23



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Controller model info on page 23



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Controller model info on page 23

ACCESSORIES

We offer a wide range of accessories that offer ease of use and flexibility to meet your specific application needs. QX Precision Fastening Systems are compatible with a variety of plug and play accessories to maximize productivity for your manufacturing line.

- Battery chargers

Battery packs

Boots

Bit selector trays
- Socket selector trays

Suspension bales

Auxiliary handles

Selector tray cables
- Torque testers

Spring balancers

Socket kits



IQV40™ Series 40V,
2.5Ah - Battery Charger
BC1161



IQV20™ Series 20V
Battery Charger
BC1121



IQV20™ Series Li-Ion Dual
Bay Charger BC1221



IQV40™ Series 40V,
2.5Ah - Lithium-Ion
Battery Pack



IQV20™ Series 20V, 5.0Ahr -
Lithium-Ion Battery
BL2022



IQV20™ Series 20V,
2.5Ahr - Lithium-Ion
Battery Pack - BL2012



IQV20™ Series 20V,
5.6Ah Sustainable Lithium-
Ion Battery BL2023



Boot



Bit Selector Tray



Socket Selector
Tray



Suspension
Bale



Auxiliary
Handle



Selector Tray
Cables



Torque Tester



Spring
Balancer



Socket Kit

QXBD	QXBN/QXFD
1. QXBD 2. QXBD 3. QXBD 4. QXBD 5. QXBD 6. QXBD 7. QXBD 8. QXBD 9. QXBD 10. QXBD 11. QXBD 12. QXBD 13. QXBD 14. QXBD 15. QXBD 16. QXBD 17. QXBD 18. QXBD 19. QXBD 20. QXBD 21. QXBD 22. QXBD 23. QXBD 24. QXBD 25. QXBD 26. QXBD 27. QXBD 28. QXBD 29. QXBD 30. QXBD 31. QXBD 32. QXBD 33. QXBD 34. QXBD 35. QXBD 36. QXBD 37. QXBD 38. QXBD 39. QXBD 40. QXBD 41. QXBD 42. QXBD 43. QXBD 44. QXBD 45. QXBD 46. QXBD 47. QXBD 48. QXBD 49. QXBD 50. QXBD 51. QXBD 52. QXBD 53. QXBD 54. QXBD 55. QXBD 56. QXBD 57. QXBD 58. QXBD 59. QXBD 60. QXBD 61. QXBD 62. QXBD 63. QXBD 64. QXBD 65. QXBD 66. QXBD 67. QXBD 68. QXBD 69. QXBD 70. QXBD 71. QXBD 72. QXBD 73. QXBD 74. QXBD 75. QXBD 76. QXBD 77. QXBD 78. QXBD 79. QXBD 80. QXBD 81. QXBD 82. QXBD 83. QXBD 84. QXBD 85. QXBD 86. QXBD 87. QXBD 88. QXBD 89. QXBD 90. QXBD 91. QXBD 92. QXBD 93. QXBD 94. QXBD 95. QXBD 96. QXBD 97. QXBD 98. QXBD 99. QXBD 100. QXBD	1. QXBN/QXFD 2. QXBN/QXFD 3. QXBN/QXFD 4. QXBN/QXFD 5. QXBN/QXFD 6. QXBN/QXFD 7. QXBN/QXFD 8. QXBN/QXFD 9. QXBN/QXFD 10. QXBN/QXFD 11. QXBN/QXFD 12. QXBN/QXFD 13. QXBN/QXFD 14. QXBN/QXFD 15. QXBN/QXFD 16. QXBN/QXFD 17. QXBN/QXFD 18. QXBN/QXFD 19. QXBN/QXFD 20. QXBN/QXFD 21. QXBN/QXFD 22. QXBN/QXFD 23. QXBN/QXFD 24. QXBN/QXFD 25. QXBN/QXFD 26. QXBN/QXFD 27. QXBN/QXFD 28. QXBN/QXFD 29. QXBN/QXFD 30. QXBN/QXFD 31. QXBN/QXFD 32. QXBN/QXFD 33. QXBN/QXFD 34. QXBN/QXFD 35. QXBN/QXFD 36. QXBN/QXFD 37. QXBN/QXFD 38. QXBN/QXFD 39. QXBN/QXFD 40. QXBN/QXFD 41. QXBN/QXFD 42. QXBN/QXFD 43. QXBN/QXFD 44. QXBN/QXFD 45. QXBN/QXFD 46. QXBN/QXFD 47. QXBN/QXFD 48. QXBN/QXFD 49. QXBN/QXFD 50. QXBN/QXFD 51. QXBN/QXFD 52. QXBN/QXFD 53. QXBN/QXFD 54. QXBN/QXFD 55. QXBN/QXFD 56. QXBN/QXFD 57. QXBN/QXFD 58. QXBN/QXFD 59. QXBN/QXFD 60. QXBN/QXFD 61. QXBN/QXFD 62. QXBN/QXFD 63. QXBN/QXFD 64. QXBN/QXFD 65. QXBN/QXFD 66. QXBN/QXFD 67. QXBN/QXFD 68. QXBN/QXFD 69. QXBN/QXFD 70. QXBN/QXFD 71. QXBN/QXFD 72. QXBN/QXFD 73. QXBN/QXFD 74. QXBN/QXFD 75. QXBN/QXFD 76. QXBN/QXFD 77. QXBN/QXFD 78. QXBN/QXFD 79. QXBN/QXFD 80. QXBN/QXFD 81. QXBN/QXFD 82. QXBN/QXFD 83. QXBN/QXFD 84. QXBN/QXFD 85. QXBN/QXFD 86. QXBN/QXFD 87. QXBN/QXFD 88. QXBN/QXFD 89. QXBN/QXFD 90. QXBN/QXFD 91. QXBN/QXFD 92. QXBN/QXFD 93. QXBN/QXFD 94. QXBN/QXFD 95. QXBN/QXFD 96. QXBN/QXFD 97. QXBN/QXFD 98. QXBN/QXFD 99. QXBN/QXFD 100. QXBN/QXFD

QXBD2AT005PQ04	9–44	1.0–5	1,213	3 (1.14)	21.73 (552)	0.36 (9.2)	20V	1/4" Quick Change	Via USB Cable	Bluetooth Only	YES
QXBD2AT010PS06	18–89	2.0–10	936	2.6 (1.18)	20.67 (525)	0.49 (12.5)	20V	3/8" Square	Via USB Cable	Bluetooth Only	YES
QXBD2AT015PS06	27–133	3.0–15	600	2.6 (1.18)	20.67 (525)	0.49 (12.5)	20V	3/8" Square	Via USB Cable	Bluetooth Only	YES
QXBD2AT018PQ04	32–159	3.6–18	500	2.8 (1.27)	24.34 (542)	0.51 (13)	20V	1/4" Quick Change	Via USB Cable	Bluetooth Only	YES
QXBD2AT018PS06	32–159	3.6–18	500	2.8 (1.27)	24.34 (542)	0.51 (13)	20V	3/8" Square	Via USB Cable	Bluetooth Only	YES
QXBD2AT027PS06	48–239	5.4–27	330	3.7 (1.68)	21.73 (552)	0.67 (17)	20V	3/8" Square	Via USB Cable	Bluetooth Only	YES

QXFN

QXFN2PT004PQ04	7-35	(0.8-4)	1,500	2.0 (0.91)	8.48 (215.4)	0.8-1.0 (20.3-26.0)	20V	1/4" Quick Change	Via USB Cable	Via USB Cable	NO
QXFN2PT004PS04	7-35	(0.8-4)	1,500	2.0 (0.91)	8.2 (208.3)	0.8-1.0 (20.3-26.0)	20V	1/4" Square	Via USB Cable	Via USB Cable	NO
QXFN2PT004PS06	7-35	(0.8-4)	1,500	2.0 (0.91)	8.35 (211.3)	0.8-1.0 (20.3-26.0)	20V	3/8" Square	Via USB Cable	Via USB Cable	NO

QXFN2AT005PQ04	9–44	(1.0–5)	1213	2.5 (1.14)	21.73 (552)	0.36 (9.2)	20V	1/4" Quick Change	Via USB Cable	Via USB Cable	NO
QXFN2AT010PS06	18–89	(2.0–10)	936	2.6 (1.18)	20.67 (525)	0.49 (12.5)	20V	3/8" Square	Via USB Cable	Via USB Cable	NO
QXFN2AT015PS06	27–133	(3.0–15)	600	2.6 (1.18)	20.67 (525)	0.49 (12.5)	20V	3/8" Square	Via USB Cable	Via USB Cable	NO
QXFN2AT018PQ04	32–159	(3.6–18)	500	2.8 (1.27)	24.34 (542)	0.51 (13)	20V	1/4" Quick Change	Via USB Cable	Via USB Cable	NO
QXFN2AT018PS06	32–159	(3.6–18)	500	2.8 (1.27)	24.34 (542)	0.51 (13)	20V	3/8" Square	Via USB Cable	Via USB Cable	NO
QXFN2AT027PS06	48–239	(5.4–27)	330	3.7 (1.68)	21.73 (552)	0.67 (17)	20V	3/8" Square	Via USB Cable	Via USB Cable	NO

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QXBN2AT005PQ04	9–44	(1.0–5)	1213	2.5 (1.14)	21.73 (552)	0.36 (9.2)	20V	1/4" Quick Change	Via USB Cable	Bluetooth Only	NO
QXBN2AT010PS06	18–89	(2.0–10)	936	2.6 (1.18)	20.67 (525)	0.49 (12.5)	20V	3/8" Square	Via USB Cable	Bluetooth Only	NO
QXBN2AT015PS06	27–133	(3.0–15)	600	2.6 (1.18)	20.67 (525)	0.49 (12.5)	20V	3/8" Square	Via USB Cable	Bluetooth Only	NO
QXBN2AT018PQ04	32–159	(3.6–18)	500	2.8 (1.27)	24.34 (542)	0.51 (13)	20V	1/4" Quick Change	Via USB Cable	Bluetooth Only	NO
QXBN2AT018PS06	32–159	(3.6–18)	500	2.8 (1.27)	24.34 (542)	0.51 (13)	20V	3/8" Square	Via USB Cable	Bluetooth Only	NO
QXBN2AT027PS06	48–239	(5.4–27)	330	3.7 (1.68)	21.73 (552)	0.67 (17)	20V	3/8" Square	Via USB Cable	Bluetooth Only	NO

QXFD2PT004PQ04	7–35	(0.8–4)	1,500	2.0 (0.91)	8.48 (215.4)	0.8–1.0 (20.3–26.0)	20V	1/4" Quick Change	Via USB Cable	Via USB Cable	YES
QXFD2PT004PS04	7–35	(0.8–4)	1,500	2.0 (0.91)	8.2 (208.3)	0.8–1.0 (20.3–26.0)	20V	1/4" Square	Via USB Cable	Via USB Cable	YES
QXFD2PT004PS06	7–35	(0.8–4)	1,500	2.0 (0.91)	8.35 (212)	0.8–1.0 (20.3–26.0)	20V	3/8" Square	Via USB Cable	Via USB Cable	YES
QXFD2PT008PQ04	14–70	(1.6–8)	1,150	2.0 (0.91)	8.48 (215.4)	0.8–1.0 (20.3–26.0)	20V	1/4" Quick Change	Via USB Cable	Via USB Cable	YES
QXFD2PT008PS04	14–70	(1.6–8)	1,150	2.0 (0.91)	8.2 (208.3)	0.8–1.0 (20.3–26.0)	20V	1/4" Square	Via USB Cable	Via USB Cable	YES
QXFD2PT008PS06	14–70	(1.6–8)	1,150	2.0 (0.91)	8.35 (212)	0.8–1.0 (20.3–26.0)	20V	3/8" Square	Via USB Cable	Via USB Cable	YES

QXFD2AT005PQ04	9–44	(1.0–5)	1213	2.5 (1.14)	21.73 (552)	0.36 (9.2)	20V	1/4" Quick Change	Via USB Cable	Via USB Cable	YES
QXFD2AT010PS06	18–89	(2.0–10)	936	2.6 (1.18)	20.67 (525)	0.49 (12.5)	20V	3/8" Square	Via USB Cable	Via USB Cable	YES
QXFD2AT015PS06	27–133	(3.0–15)	600	2.6 (1.18)	20.67 (525)	0.49 (12.5)	20V	3/8" Square	Via USB Cable	Via USB Cable	YES
QXFD2AT018PQ04	32–159	(3.6–18)	500	2.8 (1.27)	24.34 (542)	0.51 (13)	20V	1/4" Quick Change	Via USB Cable	Via USB Cable	YES
QXFD2AT018PS06	32–159	(3.6–18)	500	2.8 (1.27)	24.34 (542)	0.51 (13)	20V	3/8" Square	Via USB Cable	Via USB Cable	YES
QXFD2AT027PS06	48–239	(5.4–27)	330	3.7 (1.68)	21.73 (552)	0.67 (17)	20V	3/8" Square	Via USB Cable	Via USB Cable	YES



QXXD

QXXD2AT005PQ04	9–44	1.0–5	1213	2.5 (1.14)	21.73 (552)	0.36 (9.2)	20V	1/4" Quick Change	Wireless + USB	Wireless	YES
QXXD2AT010PS06	18–89	2.0–10	936	2.6 (1.18)	20.67 (525)	0.49 (12.5)	20V	3/8" Square	Wireless + USB	Wireless	YES
QXXD2AT015PS06	27–133	3.0–15	600	2.6 (1.18)	20.67 (525)	0.49 (12.5)	20V	3/8" Square	Wireless + USB	Wireless	YES
QXXD2AT018PQ04	32–159	3.6–18	500	2.8 (1.27)	24.34 (542)	0.51 (13)	20V	1/4" Quick Change	Wireless + USB	Wireless	YES
QXXD2AT018PS06	32–159	3.6–18	500	2.8 (1.27)	24.34 (542)	0.51 (13)	20V	3/8" Square	Wireless + USB	Wireless	YES
QXXD2AT027PS06	48–239	5.4–27	330	3.7 (1.68)	21.73 (552)	0.67 (17)	20V	3/8" Square	Wireless + USB	Wireless	YES

QXXN

QXXN2AT005PQ04	9–44	1.0–5	1213	2.5 (1.14)	21.73 (552)	0.36 (9.2)	20V	1/4" Quick Change	Wireless + USB	Wireless	No
QXXN2AT010PS06	18–89	2.0–10	936	2.6 (1.18)	20.67 (525)	0.49 (12.5)	20V	3/8" Square	Wireless + USB	Wireless	No
QXXN2AT015PS06	27–133	3.0–15	600	2.6 (1.18)	20.67 (525)	0.49 (12.5)	20V	3/8" Square	Wireless + USB	Wireless	No
QXXN2AT018PQ04	32–159	3.6–18	500	2.8 (1.27)	24.34 (542)	0.51 (13)	20V	1/4" Quick Change	Wireless + USB	Wireless	No
QXXN2AT018PS06	32–159	3.6–18	500	2.8 (1.27)	24.34 (542)	0.51 (13)	20V	3/8" Square	Wireless + USB	Wireless	No
QXXN2AT027PS06	48–239	5.4–27	330	3.7 (1.68)	21.73 (552)	0.67 (17)	20V	3/8" Square	Wireless + USB	Wireless	No

QXWD - LIMITLESS

QXWD2AT005PQ04	9–44	1.0–5	1213	2.5 (1.14)	21.73 (552)	0.36 (9.2)	20	1/4" Quick Change	WLAN 2.4 & 5 GHz, USB, BLE & ZB	Wireless	YES
QXWD2AT010PS06	18–89	2.0–10	936	2.6 (1.18)	20.67 (525)	0.49 (12.5)	20	3/8" Square Drive	WLAN 2.4 & 5 GHz, USB, BLE & ZB	Wireless	YES
QXWD2AT015PS06	27–133	3.0–15	600	2.6 (1.18)	20.67 (525)	0.49 (12.5)	20	3/8" Square Drive	WLAN 2.4 & 5 GHz, USB, BLE & ZB	Wireless	YES
QXWD2AT018PQ04	32–159	3.6–18	500	2.8 (1.27)	24.34 (542)	0.51 (13)	20	1/4" Quick Change	WLAN 2.4 & 5 GHz, USB, BLE & ZB	Wireless	YES
QXWD2AT018PS06	32–159	3.6–18	500	2.8 (1.27)	24.34 (542)	0.51 (13)	20	3/8" Square Drive	WLAN 2.4 & 5 GHz, USB, BLE & ZB	Wireless	YES
QXWD2AT027PS06	48–239	5.4–27	330	3.7 (1.68)	21.73 (552)	0.67 (17)	20	3/8" Square Drive	WLAN 2.4 & 5 GHz, USB, BLE & ZB	Wireless	YES



SERIES™

QX ETS

QXFN2PT008ES06	14–70	1.6-8	1150	2.0 (0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square	Via USB Cable	Via USB Cable	NO
QXFD2PT008ES06	14–70	1.6-8	1150	2.0 (0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square	Via USB Cable	Via USB Cable	YES
QXBN2PT008ES06	14–70	1.6-8	1150	2.0 (0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square	Via USB Cable	Bluetooth Only	NO
QXFN2PT008EQ04	14–70	1.6-8	1150	2.0 (0.91)	8.13 (206.5)	1.02 (26)	20V	1/4" Quick Change	Via USB Cable	Via USB Cable	NO
QXFN2PT012ES06	21–106	2.4-1.2	750	2.0 (0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square	Via USB Cable	Via USB Cable	NO
QXFD2PT012ES06	21–106	2.4-1.2	750	2.0 (0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square	Via USB Cable	Via USB Cable	YES
QXBN2PT012ES06	21–106	2.4-1.2	750	2.0 (0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square	Via USB Cable	Bluetooth Only	NO
QXFN2PT012EQ04	21–106	2.4-1.2	750	2.0 (0.91)	8.13 (206.5)	1.0 (26)	20V	1/4" Quick Change	Via USB Cable	Via USB Cable	NO
QXFN2PT018ES06	32–159	3.6-18	500	2.0 (0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square	Via USB Cable	Via USB Cable	NO
QXFD2PT018ES06	32–159	3.6-18	500	2.0 (0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square	Via USB Cable	Via USB Cable	YES
QXBN2PT018ES06	32–159	3.6-18	500	2.0 (0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square	Via USB Cable	Bluetooth Only	NO
QXFN2PT018EQ04	32–159	3.6-18	500	2.0 (0.91)	8.13 (206.5)	1.02 (26)	20V	1/4" Quick Change	Via USB Cable	Via USB Cable	NO
QXFN2PT024ES06	42–212	4.8-24	500	2.0 (0.91)	8.35 (212)	1.02 (26)	20V	3/8" Square	Via USB Cable	Via USB Cable	NO
QXFD2PT024ES06	42–212	4.8-24	500	2.0 (0.91)	8.35 (212)	1.02 (26)	20V	3/8" Square	Via USB Cable	Via USB Cable	YES
QXBN2PT024ES06	42–212	4.8-24	500	2.0 (0.91)	8.35 (212)	1.02 (26)	20V	3/8" Square	Via USB Cable	Bluetooth Only	NO

QXBD2PT008ES06	14–70	1.6-8	1150	2.0 (0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square	Via USB Cable	Bluetooth Only	YES
QXBD2PT008EQ4	14–70	1.6-8	1150	2.0 (0.91)	8.13 (206.5)	1.02 (26)	20V	1/4" Quick Change	Via USB Cable	Bluetooth Only	YES
QXBD2PT012ES06	21–106	2.4-12	750	2.0 (0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square	Via USB Cable	Bluetooth Only	YES
QXBD2PT012EQ4	21–106	2.4-12	750	2.0 (0.91)	8.13 (206.5)	1.02 (26)	20V	1/4" Quick Change	Via USB Cable	Bluetooth Only	YES

QXBD2PT018ES06	32–159	3.6-18	500	2.0(0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square	Via USB Cable	Bluetooth Only	YES
QXBD2PT018EQ4	32–159	3.6-18	500	2.0 (0.91)	8.13 (206.5)	1.02 (26)	20V	1/4" Quick Change	Via USB Cable	Bluetooth Only	YES
QXBD2PT024ES06	42–212	4.8-24	500	2.0 (0.91)	8.35 (212)	1.02 (26)	20V	3/8" Square	Via USB Cable	Bluetooth Only	YES

QXBD2AT027ES06	48–239	5.4-27	330	3.7 (1.68)	21.7 (552)	0.68 (17.2)	20V	3/8" Square	Via USB Cable	Bluetooth Only	YES
QXFN2AT027ES06	48–239	5.4-27	330	3.7 (1.68)	21.7 (552)	0.68 (17.2)	20V	3/8" Square	Via USB Cable	Via USB Cable	NO
QXFD2AT027ES06	48–239	5.4-27	330	3.7 (1.68)	21.7 (552)	0.68 (17.2)	20V	3/8" Square	Via USB Cable	Via USB Cable	YES
QXBN2AT027ES06	48–239	5.4-27	330	3.7 (1.68)	21.7 (552)	0.68 (17.2)	20V	3/8" Square	Via USB Cable	Bluetooth Only	NO

QXXD2PT008ES06	14–70	1.6-8	1150	2.0 (0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square	Wireless + USB	Wireless + USB	YES
QXXD2PT008EQ04	14–70	1.6-8	1150	2.0 (0.91)	8.13 (206.5)	1.02 (26)	20V	1/4" Quick Change	Wireless + USB	Wireless + USB	YES
QXXD2PT012ES06	21–106	2.4-12	750	2.0 (0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square	Wireless + USB	Wireless + USB	YES
QXXD2PT012EQ04	21–106	2.4-12	750	2.0 (0.91)	8.13 (206.5)	1.02 (26)	20V	1/4" Quick Change	Wireless + USB	Wireless + USB	YES
QXXD2PT018ES06	32–159	3.6-18	500	2.0 (0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square	Wireless + USB	Wireless + USB	YES
QXXD2PT018EQ04	32–159	3.6-18	500	2.0 (0.91)	8.13 (206.5)	1.02 (26)	20V	1/4" Quick Change	Wireless + USB	Wireless + USB	YES
QXXD2PT024ES06	42–212	4.8-24	500	2.0 (0.91)	8.35 (212)	1.02 (26)	20V	3/8" Square	Wireless + USB	Wireless + USB	YES

QXXD2AT027ES06	48–239	5.4-27	330	3.7 (1.68)	21.7 (552)	0.68 (17.2)	20V	3/8" Square	Wireless + USB	Wireless + USB	YES
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QXFN5AT040ES08	5.90–29.50	8.0-40	545	5.0 (2.27)	23.1 (586.1)	0.85 (21.6)	40V	1/2" Square	Via USB Cable	Via USB Cable	NO
QXFN5AT080ES08	8.80–59.0	12.0-80	375	5.0 (2.27)	23.1 (586.1)	0.85 (21.6)	40V	1/2" Square	Via USB Cable	Via USB Cable	NO

QXBD5AT040ES08	5.90–29.50	8.0-40	545	5.0 (2.27)	23.1 (586.1)	0.85 (21.6)	40V	1/2" Square	Via USB Cable	Bluetooth Only	YES
QXBD5AT080ES08	8.80–59.0	12.0-80	375	5.0 (2.27)	23.1 (586.1)	0.85 (21.6)	40V	1/2" Square	Via USB Cable	Bluetooth Only	YES

QXXD5AT040ES08	5.90–29.50	8.0-40	545	5.0 (2.27)	23.1 (586.1)	0.85 (21.6)	40V	1/2" Square	Wireless + USB	Wireless + USB	YES
QXXD5AT080ES08	8.80–59.0	12.0-80	375	5.0 (2.27)	23.1 (586.1)	0.85 (21.6)	40V	1/2" Square	Wireless + USB	Wireless + USB	YES

QXXN2PT008EQ04	14-70	1.6-8	1150	2.0 (0.91)	8.13 (206.5)	1.02 (26)	20V	1/4" Quick Change	Wireless +USB	Wireless	No
QXXN2PT008ES06	14-70	1.6-8	1150	2.0 (0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square Drive	Wireless +USB	Wireless	No
QXXN2PT012EQ04	21-106	2.4-12	750	2.0 (0.91)	8.13 (206.5)	1.02 (26)	20V	1/4" Quick Change	Wireless +USB	Wireless	No
QXXN2PT012ES06	21-106	2.4-12	750	2.0 (0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square Drive	Wireless +USB	Wireless	No
QXXN2PT018EQ04	32-159	3.6-18	500	2.0 (0.91)	8.13 (206.5)	1.02 (26)	20V	1/4" Quick Change	Wireless +USB	Wireless	No
QXXN2PT018ES06	32-159	3.6-18	500	2.0 (0.91)	7.99 (203)	1.02 (26)	20V	3/8" Square Drive	Wireless +USB	Wireless	No
QXXN2PT024ES06	42-212	4.8-24	500	2.0 (0.91)	8.35 (212)	1.02 (26)	20V	3/8" Square Drive	Wireless +USB	Wireless	No

QXXN2AT027ES06	48-239	5.4-27	330	3.7 (1.68)	21.7 (552)	0.68 (17.2)	20V	3/8" Square Drive	Wireless +USB	Wireless	No
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QXWD2PT008EQ04	14-70	1.6-8	1150	2.0 (0.91)	8.13 (206.5)	1.02 (26)	20	1/4" Quick Change	WLAN 2.4 & 5 GHz, USB, BLE & ZB	Wireless	YES
QXWD2PT008ES06	14-70	1.6-8	1150	2.0 (0.91)	7.99(203)	1.02 (26)	20	3/8" Square Drive	WLAN 2.4 & 5 GHz, USB, BLE & ZB	Wireless	YES
QXWD2PT012EQ04	21-106	2.4-12	750	2.0 (0.91)	8.13 (206.5)	1.02 (26)	20	1/4" Quick Change	WLAN 2.4 & 5 GHz, USB, BLE & ZB	Wireless	YES
QXWD2PT012ES06	21-106	2.4-12	750	2.0 (0.91)	7.99(203)	1.02 (26)	20	3/8" Square Drive	WLAN 2.4 & 5 GHz, USB, BLE & ZB	Wireless	YES
QXWD2PT018EQ04	32-159	3.6-18	500	2.0 (0.91)	8.13 (206.5)	1.02 (26)	20	1/4" Quick Change	WLAN 2.4 & 5 GHz, USB, BLE & ZB	Wireless	YES
QXWD2PT018ES06	32-159	3.6-18	500	2.0 (0.91)	7.99(203)	1.02 (26)	20	3/8" Square Drive	WLAN 2.4 & 5 GHz, USB, BLE & ZB	Wireless	YES
QXWD2PT024ES06	42-212	1.8-24	330	2.0 (0.91)	8.35 (212)	1.02 (26)	20	3/8" Square Drive	WLAN 2.4 & 5 GHz, USB, BLE & ZB	Wireless	YES

QXWD2AT027ES06	48-239	5.4-27	330	3.7 (1.68)	2.7 (552)	0.68(17.2)	20	3/8" Square Drive	WLAN 2.4 & 5 GHz, USB, BLE & ZB	Wireless	YES
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QXFN5AT040ES08	5.90–29.50	8.0-40	545	5.0 (2.27)	23.1 (586.1)	0.85 (21.6)	40V	1/2" Square	Via USB Cable	Via USB Cable	NO
QXFN5AT080ES08	8.80–59.0	12.0-80	375	5.0 (2.27)	23.1 (586.1)	0.85 (21.6)	40V	1/2" Square	Via USB Cable	Via USB Cable	NO

QXBD5AT040ES08	5.90–29.50	8.0-40	545	5.0 (2.27)	23.1 (586.1)	0.85 (21.6)	40V	1/2" Square	Via USB Cable	Bluetooth Only	YES
QXBD5AT080ES08	8.80–59.0	12.0-80	375	5.0 (2.27)	23.1 (586.1)	0.85 (21.6)	40V	1/2" Square	Via USB Cable	Bluetooth Only	YES

QXXD5AT040ES08	5.90–29.50	8.0-40	545	5.0 (2.27)	23.1 (586.1)	0.85 (21.6)	40V	1/2" Square	Wireless + USB	Wireless + USB	YES
QXXD5AT080ES08	8.80–59.0	12.0-80	375	5.0 (2.27)	23.1 (586.1)	0.85 (21.6)	40V	1/2" Square	Wireless + USB	Wireless + USB	YES

QXXN5AT040ES08	5.90-29.50	8.0-40	545	5.0 (2.27)	23.1 (586.1)	0.85 (21.6)	40V	1/2" Square Drive	Wireless +USB	Wireless	No
QXXN5AT080ES08	8.80-59.0	12.0-80	375	5.0 (2.27)	23.1 (586.1)	0.85 (21.6)	40V	1/2" Square Drive	Wireless +USB	Wireless	No

QXWD5AT040ES08	5.90-29.50	8.0-40	545	5.0 (2.27)	23.1 (586.1)	0.85 (21.6)	40	1/2" Square Drive	WLAN 2.4 & 5 GHz, USB, BLE & ZB	Wireless	YES
QXWD5AT080ES08	8.80-59.0	12.0-80	375	5.0 (2.27)	23.1 (586.1)	0.85 (21.6)	40	1/2" Square Drive	WLAN 2.4 & 5 GHz, USB, BLE & ZB	Wireless	YES

QCXD11	QCX	Display	Standard	
QCXD11-F	QCX	Display	Standard	x
QCXD11-FM	QCX	Display	Standard	x x
QCXD11-M	QCX	Display	Standard	x
QCXD12-F	QCX	Display	Standard + PROFIBUS	x
QCXD12-FM	QCX	Display	Standard + PROFIBUS	x x
QCXD13-F	QCX	Display	Standard + DEVICENET	x
QCXD13-FM	QCX	Display	Standard + DEVICENET	x x
QCXD15-F	QCX	Display	Standard + CC-LINK	x
QCXD15-FM	QCX	Display	Standard + CC-LINK	x x
QCXM11	QCX	No Display	Standard	
QCXM11-F	QCX	No Display	Standard	x
QCXM11-FM	QCX	No Display	Standard	x x
QCXM11-M	QCX	No Display	Standard	x
QCXM12-F	QCX	No Display	Standard + PROFIBUS	x
QCXM12-FM	QCX	No Display	Standard + PROFIBUS	x x
QCXM13-F	QCX	No Display	Standard + DEVICENET	x
QCXM13-FM	QCX	No Display	Standard + DEVICENET	x x
QCXM15-F	QCX	No Display	Standard + CC-LINK	x
QCXM15-FM	QCX	No Display	Standard + CC-LINK	x x

