Conversion from QCX/MTC with internal radio to QCX/MTC with Integrated I/O and External Radio:

1) Disconnect the external antenna.
2) Remove SSD card from the controller and disconnect SSD plate from the SSD card.
3) Remove the black chassis and set the chassis screws aside.
4) Remove the sheet metal cover and set the sheet metal cover screws aside.
5) Disconnect the external antenna SMA connector from the enclosure.
6) Unfasten the Technologic carrier board retainer screws and set the retainer screws aside.
7) Disconnect the power and touchscreen display cables from the Technologic carrier board.
8) Remove the old SSD rails from the Technologic carrier board and set the four rail screws aside.
9) Attach the new SSD rails to the Prodrive Single Board Computer (SBC) using the four rail screws.
10) Insert the M.2 SSD card into the M-key M.2 socket and secure to the Prodrive SBC with spacer and M3 screw.
11) Attach the power and touchscreen display cables to the Prodrive SBC.
12) Attach the digital input/output (DIO) connector card to the Prodrive SBC using 4 screws, 4 standoffs, and 4 nuts.
13) Connect the DIO ribbon cable between the DIO connector card and the Prodrive SBC.
14) Knock out the Fieldbus expansion card plate in the controller I/O panel (if still present).
15) Install the Prodrive SBC into the unit, line up I/O ports with the enclosure openings, and secure the SBC in place with the retainer screws.
16) Install the sheet metal cover and secure in place with the sheet metal cover screws.
17) Install the black back chassis and secure in place with the chassis screws.
18) Remove the old port input label and affix the new port input label.
19) Attach the external USB radio dongle to the side of the chassis using bracket screw on rear of chassis.
20) Insert the USB cable from the external USB radio dongle into any available USB port.
21) Attach the 24Vdc input plug from the external power supply.
22) Power on unit and verify functionality.

Conversion from QCX/MTC with external radio to QCX/MTC with Integrated I/O:

1) Remove the SSD card from the controller and disconnect the SSD plate from the SSD card.
2) Disconnect the USB cable of the external USB radio dongle from the controller.
3) Remove the black chassis and set the chassis screws aside.
4) Remove the sheet metal cover and set the sheet metal cover screws aside.
5) Unfasten the Technologic carrier board retainer screws and set the retainer screws aside.
6) Disconnect the power and touchscreen display cables from the Technologic carrier board.
7) Remove the old SSD rails from the Technologic carrier board and set the four rail screws aside.
8) Attach the new SSD rails to the Prodrive Single Board Computer (SBC) using the four rail screws.
9) Insert the M.2 SSD card into the M-key M.2 socket and secure to the Prodrive SBC with spacer and M3 screw.
10) Attach the power and touchscreen display cables to the Prodrive SBC.
11) Attach the digital input/output (DIO) connector card to the Prodrive SBC using 4 screws, 4 standoffs, and 4 nuts.

12) Connect the DIO ribbon cable between the DIO connector card and the Prodrive SBC.

13) Knock out the Fieldbus expansion card plate in the controller I/O panel (if still present).
14) Install the Prodrive SBC into the unit, line up I/O ports with enclosure openings, and secure SBC in place with retainer screws.
15) Install the sheet metal cover and secure in place with the sheet metal cover screws.
16) Install the black back chassis and secure in place with the chassis screws.
17) Remove the old port input label and affix the new port input label.
18) Insert the USB cable from the external USB radio dongle into any available USB port.
19) Attach e th24Vdc input plug from the external power supply.
20) Power on the unit and verify functionality.

QCX2000 part numbers

- Prodrive SBC: QCX2-499-SBC
- SSD rails: QC2-128P x 2
- M.2 SSD card: QC2-SSD
- M.2 SSD card spacer: QC2-80C
- M.2 SSD card screw: QC-78U
- DIO connector card: QC2-499-DIOBH
- DIO ribbon cable: QC2-CABLE-DIO
- DIO connector card screw: QC-78B x 4
- DIO connector card standoff: QC-80B x 4
- DIO connector card nut: QC-27A x 4
- External Radio: TA-VD1T-888-2C (if converting from internal radio to QCX/MTC with Integrated I/O)