

MC-IOLX02

Remote I/O Link Extender Pair

CONTROLLED ENGINEERING COPY

Keep the local and remote extender assemblies matched, preserve Link A/Link B fiber identity and verify the remote card-file I/O link before restoring control.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	MC-IOLX02
Part number	51304419-150
Hardware type	Standard I/O Link Extender
System family	TPS Process Manager I/O



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MC-IOLX02

01 PRE-INSTALLATION PLAN

- 1

Verify the complete MC-IOLX02 marking and its assigned TPS Process Manager I/O position before work.
- 2

Isolate the energy associated with Process Manager or High Performance Process Manager before disconnecting MC-IOLX02.
- 3

Protect the MC-IOLX02 connectors and electronic assembly using approved ESD controls.
- 4

Record the as-found MC-IOLM02 local extender arrangement connections and configured assignment before replacement.
- 5

Confirm 51201557-150 remote fiber-optic coupler matches the approved installation record for MC-IOLX02.

MATCHED HARDWARE

- Process Manager or High Performance Process Manager
- MC-IOLM02 local extender arrangement
- 51201557-150 remote fiber-optic coupler
- MU-ILES01 CE card-file adapter kit

REMOTE EXTENDER MATCHING RECORD

HARDWARE ID	REQUIRED ARRANGEMENT
MC-IOLX02	Standard extender - remote card file
51304419-150	Standard I/O Link Extender card
51201557-150	Standard remote extender coupler
MC-IOLM02	Matching standard local-card-file arrangement

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Extender type	Standard I/O Link Extender
Card-file position	Remote
Extender card	51304419-150
Remote coupler	51201557-150
Fiber link length	1.2 km
Fiber size	62.5/125 micrometre
Optical wavelength	820 nm
Power budget	5.5 dB
CE compliance	Yes
Coating	Conformal

STANDARD-RANGE FIBER CHECK

CHECK ITEM	REQUIRED VALUE
Extender range	Standard remote I/O link
Fiber link length	1.2 km
Fiber construction	62.5/125 micrometre
Optical wavelength	820 nm
Power budget	5.5 dB over temperature range

FIELD NOTE

Keep the local and remote extender assemblies matched, preserve Link A/Link B fiber identity and verify the remote card-file I/O link before restoring control.

03 COMMISSIONING WORKFLOW



COMMISSIONING EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Assembly identity	MC-IOLX02 remote-card-file execution confirmed
Fiber identity	Link A and Link B routes preserved end to end
Optical match	62.5/125 micrometre path assigned to 820 nm hardware
Coupler match	Remote coupler 51201557-150 recorded
Link test	Remote card-file I/O communication proven before release

04 RETURN-TO-SERVICE RECORD

- ☐ Restore MC-IOLX02 under controlled conditions and review its model-specific diagnostics.
- ☐ Complete a documented functional test for remote process i/o cabinets before release.
- ☐ Confirm the intended process response before normal operation.

VERIFICATION RECORD

TECHNICIAN

DATE

CABINET / POSITION

FINAL DIAGNOSTIC STATE

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
MC-TDOR62	TPS 120 Vac relay digital-output termination	Open product page
MC-TPIX12	TPS pulse-input field termination assembly	Open product page
MC-TSIM12	TPS serial-interface field termination assembly	Open product page
MC-TAOY25	TPS analog-output field termination assembly	Open product page

SOURCE IDENTIFIERS

Honeywell Experion Control Hardware Planning Guide and TPS Process Manager I/O Specification and Technical Data
EP-DCX R301.1; IO03-684 Rev. 2

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