MC-IOLX02

Remote I/O Link Extender Pair

Honeywell MC-IOLX02 is a Standard I/O Link Extender for a remote card file. It carries the redundant TPS Process Manager I/O link over a standard-range fiber-optic connection.

PRODUCT SNAPSHOT

BRAND	**FAMILY**
Honeywell	TPS Process Manager I/O
PART	**ORIGIN / HS**
51304419-150	USA / 8537101190

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PRODUCT OVERVIEW

Honeywell MC-IOLX02 is a Standard I/O Link Extender for a remote card file. It carries the redundant TPS Process Manager I/O link over a standard-range fiber-optic connection.

1. Extends the Process Manager I/O link to a remote card file
2. Uses a standard-range fiber-optic connection
3. Maintains redundant Link A and Link B paths
4. Pairs the extender card with the remote coupler

SYSTEM COMPONENTS

- 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

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**

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
Fiber size	62.5/125 micrometre
Optical wavelength	820 nm
Power budget	5.5 dB
CE compliance	Yes
Coating	Conformal

OPTICAL-LINK AND HARDWARE VERIFICATION

CHECK	PASS 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

TECHNICAL 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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Remote process I/O cabinets

Extends the Process Manager I/O link to a remote card file

Long cabinet-row I/O links

Uses a standard-range fiber-optic connection

Legacy TPS I/O relocation

Maintains redundant Link A and Link B paths

I/O-link restoration

Pairs the extender card with the remote coupler

PRODUCT PRECAUTIONS

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.
6. Restore MC-IOLX02 under controlled conditions and review its model-specific diagnostics.
7. Complete a documented functional test for remote process i/o cabinets before release.

ENGINEER FAQ

Q1 Does MC-IOLX02 match Process Manager or High Performance Process Manager in a Remote process I/O cabinets installation?

Verify the complete MC-IOLX02 marking, the documented TPS Process Manager I/O position and the installed Process Manager or High Performance Process Manager before fitting the assembly.

Q2 How should MC-IOLX02 be wired when it must extends the process manager i/o link to a remote card file?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for MC-IOLX02; then continuity-test the affected path.

Q3 Which TPS Process Manager I/O records should be captured before removing MC-IOLX02?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with MC-IOLX02 before disconnection.

Q4 What controlled test confirms that MC-IOLX02 can uses a standard-range fiber-optic connection?

Apply the approved field or simulated stimulus, observe the TPS Process Manager I/O indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which MC-IOLM02 local extender arrangement condition should be checked when MC-IOLX02 reports an abnormal state?

Check the MC-IOLM02 local extender arrangement supply, seating and connection first, then compare channel diagnostics with the recorded MC-IOLX02 baseline.

Q6 Can MC-IOLX02 be moved directly into Long cabinet-row I/O links without validating MU-ILES01 CE card-file adapter kit?

No. Confirm the MU-ILES01 CE card-file adapter kit, revision, connection scheme and TPS Process Manager I/O configuration before transferring MC-IOLX02 to that duty.

Q7 What maintenance evidence is required after MC-IOLX02 is used for Legacy TPS I/O relocation?

Retain the nameplate record, corrective action, final diagnostics and a controlled legacy tps i/o relocation functional-test result for MC-IOLX02.

Q8 How should MC-IOLX02 be returned to service in I/O-link restoration?

Restore power under control, verify maintains redundant link a and link b paths, exercise the intended signal path and release MC-IOLX02 only after the TPS Process Manager I/O remains in its approved operating state.

SOURCE Honeywell Experion Control Hardware Planning Guide and TPS Process Manager I/O Specification and Technical Data | EP-DCX-R601.0, 2023-5313-rev2

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