

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Honeywell
System family	TPS Process Manager I/O
Part number	51304419-150
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Honeywell product record.

PARAMETER	TECHNICAL 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 OPTICAL LINK DATA

LINK ITEM	HONEYWELL 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

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System Role and Architecture

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.

FUNCTION 1

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

FUNCTION 2

Uses a standard-range fiber-optic connection

FUNCTION 3

Maintains redundant Link A and Link B paths

FUNCTION 4

Pairs the extender card with the remote coupler

Matched 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

REMOTE I/O LINK ASSEMBLY

MODEL / PART	DOCUMENTED ROLE
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
MU-ILES01	Adapter kit for CE-compliant card files

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Applications and Engineering Context

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

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.

FIBER-LINK ACCEPTANCE EVIDENCE

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

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Engineering 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.

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

MANUFACTURER SOURCE RECORD

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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