ICS Triplex T8310C

01 / Identify chassis and processor position

1 Trace the installation

Record the controller-side interface, adapter, expander chassis address, PL1/PL2 position and connected I/O. Retain the existing connection-table entries.

2 Read the complete unit label

Capture T8310C, hardware series, revision and serial number. Keep the coating suffix separate from the hardware-series designation when selecting the power rating.

Physical positions	PL1 or PL2 only
Logical positions	Toolset slots 13 or 14
Chassis identity	Configured range 2–15

Two different meanings of C

The catalog suffix C denotes conformal coating. Hardware Series C is a separate label and has a different power rating from Series A/B; identify both before a power-budget review.

ICS Triplex T8310C

02 / Inspect the approved communication route

1 Check each link boundary

Identify the actual TC-301 copper path or the optical arrangement using T8314 and corresponding cables. Inspect connector seating and routing without changing the approved topology.

2 Keep media and protocol distinct

Do not insert ordinary Ethernet switches or unqualified cabling because the route uses UTP. Confirm distance against the actual copper or optical architecture.

Copper limit	30 m with TC-301
Optical limit	10 km with T8314 equipment
Routing record	Interface, adapter, links and processor

Masking is not repair

Voting can preserve communication after a link fault. Treat persistent error counts or slice faults as maintenance evidence even if the current process values remain plausible.

ICS Triplex T8310C

03 / Check power and diagnostic access

1 Verify both chassis feeds

Measure the permitted supply conditions using the site-approved procedure, then compare the module’s supply readings. A healthy shared indication does not replace review of both feeds.

2 Read diagnostic details

Inspect per-link receive errors, frame/checksum errors, discrepancies and slice state. Record a healthy baseline before a controlled changeover.

Supply window	20–32 V DC
Series A/B rating	45 W
Series C rating	20 W

Slot numbering

PL1/PL2 are the physical processor positions; the toolset addresses them as slots 13/14. Mixing physical labels with I/O-slot numbers can misdirect configuration checks.

ICS Triplex T8310C

04 / Perform the authorized changeover

1 Establish replacement readiness

Insert the approved replacement in the vacant processor position using the specified ejector procedure. Confirm steady green Healthy A, B and C indications before proceeding.

2 Observe role transfer

Use the approved automatic or manual replacement procedure. Compare the active and standby state and link diagnostics; absent standby transmit activity is expected and is not by itself a failure.

Readiness	Three Healthy indications
Role evidence	Active and Standby states
Link evidence	Receive and transmit behavior by role

Standby activity

A standby module does not show red transmit activity. Evaluate the Healthy and Standby indications together before interpreting absent transmit indication as a failed link.

ICS Triplex T8310C

05 / Verify end-to-end service

1 Check affected I/O traffic

Confirm that the controller addresses the intended expander chassis and its I/O. Resolve missing channels, stale data or unexpected watchdog behavior at the appropriate path boundary.

2 Close the maintenance record

Retain module identities, series-specific power review, link diagnostics and changeover results. Restore the planned redundancy arrangement and remove temporary maintenance controls after authorized acceptance.

Address check	Chassis and slot mapping agree
Redundancy check	Expected active/standby arrangement
Acceptance	I/O communication and process response verified

Other automation product references

Foxboro FBM232 P0926GW

Honeywell 10302/2/1

Honeywell DCOM-232/485

Separate references; no replacement or compatibility is implied.