

AMIKON TECHNICAL DOCUMENTATION

Installation Instructions

ICS Triplex T8111C

Trusted TMR main processor

SUPPLY	PROCESSING	DIAGNOSTIC	POWER
20-32 Vdc	HIFT TMR	Front RS-232	30 W

For qualified personnel only. This installation summary is not a substitute for the controlled manufacturer procedure, system safety plan or approved site isolation requirements.

01

BEFORE INSTALLATION

Identity and revision	Record T8111C, hardware issue, firmware and serial number; review applicable manufacturer notices.
Controller position	Use the designated T8100 processor position and the matched rear adapter.
Power and cooling	Verify 20-32 Vdc backplane supply and 30 W processor dissipation in the thermal design.
Generation-specific checks	Check program size, ISaGRAF sleep period, companion processor and communications-module revisions against current manufacturer guidance.
Standby and maintenance	Verify standby compatibility and education; forced I/O inhibits changeover. Never remove an ACTIVE processor.

02

PREPARATION AND BOUNDARIES

- Qualified personnel must use the complete manufacturer procedure and site maintenance plan. Reject damaged housings or bent pins; observe ESD precautions without opening the housing.
- Record diagnostic fault codes before reset. Check the actual firmware and applicable notices; do not force safety-related status healthy or change configuration using this reference sheet.

03
INSTALLATION AND COMMISSIONING

01	Verify the exact order, hardware issue, firmware, program and manufacturer notice applicability before work.
02	Confirm controller position, backplane power, cooling and the correctly seated rear adapter or cable.
03	Using the approved procedure, open both ejectors, seat the processor promptly using its upper and lower fascia and lock the ejectors.
04	Check all three Healthy indicators and the expected Active, Standby and Educated states. Resolve any Inhibit indication using the full procedure.
05	Complete controlled changeover before removal. Confirm the replacement is ACTIVE and the original is STANDBY; never remove an ACTIVE module.
06	Verify program operation, configured communications and event records before releasing the installation to service.

04
SAFETY AND FINAL CHECKS

- Online replacement is conditional on the approved active/standby procedure and compatible configuration. Removing an ACTIVE module can initiate shutdown; forced I/O inhibits changeover.
- Check PSA 2018-11-001 for Series B O10/O11 redundancy; PN 2019-04-002 for older communications modules; PN 2022-02-001 for sleep periods below 32 ms. Supplied-unit applicability and correction status require verification.

05
OFFICIAL PROCEDURE

PD-T8111 Issue 4 | Trusted TMR Processor

PDF p.1: overview; pp.17-19: installation and connections; pp.42-44: indicators; pp.50-51: changeover; pp.53-54: ratings.

PSA 2018-11-001 - verify actual version and redundant configuration

Independent Amikon reference, not an OEM manual. Use the complete manufacturer instructions matching the actual hardware and firmware. No manufacturer pages are reproduced.

AMIKON PRODUCT SUPPORT

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ORIGINAL REFERENCE SCHEMATICS

ICS Triplex T8111C | Documented installation context

Original Amikon illustration based on the linked OEM pages. Logical arrangement only; not to scale and not an electrical wiring or manufacturer installation drawing.

A | EQUIPMENT ARRANGEMENT



Original connection overview, not a terminal pinout. Use the exact PL1 table and the selected adapter documentation.

The front panel contains diagnostic, status and maintenance controls. Confirm the actual hardware and firmware before any controlled changeover.

B | CONFIGURATION BOUNDARY

Check the actual hardware issue, firmware, configured program size and companion processor. The product family name does not establish unrestricted substitution or compatibility with every communications-module revision.

07

ORIGINAL MANUFACTURER DRAWING AND PROCEDURE LINKS

[External connector and adapter requirements - PDF page 18](#)

[Manufacturer front-panel reference - PDF page 42](#)

[Active and standby transfer restrictions - PDF page 50](#)

If the viewer ignores the page target, enter the stated PDF page manually. Retain the full manufacturer warnings and approved maintenance plan; this reference does not authorize live work.