



SYSTEMS AUTOMATION & MANAGEMENT PTY LTD.

SAMSOFT iNAT SI-131

SICOMP M INTERFACE REPLACEMENT CARD



The iNET SI-131 interface facilitates the migration of a SICOMP M system to a modern standard platform.

Based on the retention of existing I/O hardware it is possible to make the transition in phases.

A passive phase with parallel operation and an active phase where the SICOMP is removed.

**Facilitate the Migration
of a SICOMP M System to a
modern platform.**

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FEATURES

The iNET SI-131 interface facilitates the migration of a SICOMP M system to a modern standard platform. Based on the retention of existing I/O hardware it is possible to make the transition in phases. A passive phase with parallel operation and the active phase where the SICOMP is removed. The iNET SI-131 is an Ethernet based interface which connects to any TCP/IP enabled server.

BENEFITS

- Data connectivity - Limited connectivity with the outside world is replaced by the iNET's Ethernet capability with TCP/IP compatibility.
- Faster acquisition - SICOMP M based process computer have limitations on the scan time of I/O's. The iNET interface has powerful processors on board to off-load acquisition and control locally.
- Integrated solution – Inserts directly into the PEF7 Racks with no external power supplies required.
- Phased transition – can run in parallel with existing SICOMP and take control once proven.

DATA CONNECTIVITY

Basis of the iNET interface is a Dual processor which communicates using industry standard Fast Ethernet. This has the advantage of integration into existing network infrastructure. Standard TCP/IP protocols are used to ensure maximum connectivity to Windows or Linux / Unix based operating systems. An OPC Server is available for Windows Platforms permitting standard SCADA systems to connect.

FASTER ACQUISITION

Since the iNET has local processing it distributes the processing allowing the full speed of individual I/O modules to be realized. Processing is measured in milliseconds and is only limited by conversion times of individual modules. Time tagging is also achieved at source to permit a precise and synchronized overview of the plant.

INTEGRATED SOLUTION

Each PEF7 rack requires one iNET interface which may be inserted into an empty slot. No additional power supply is required and only a network cable is attached per rack to a central network switch. For active mode operation the BEX is replaced by the iNET interface.

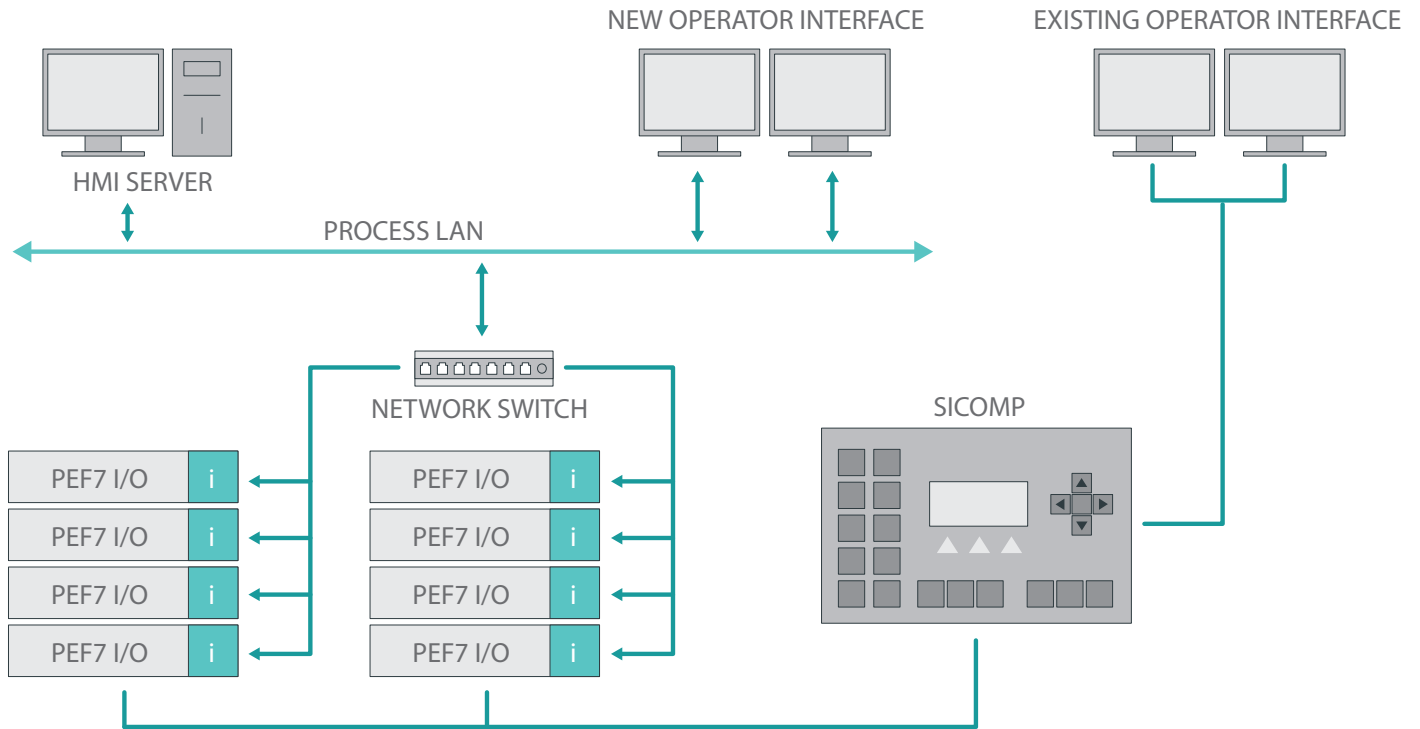
PHASED TRANSITION

The iNET interface can operate in one of two modes.

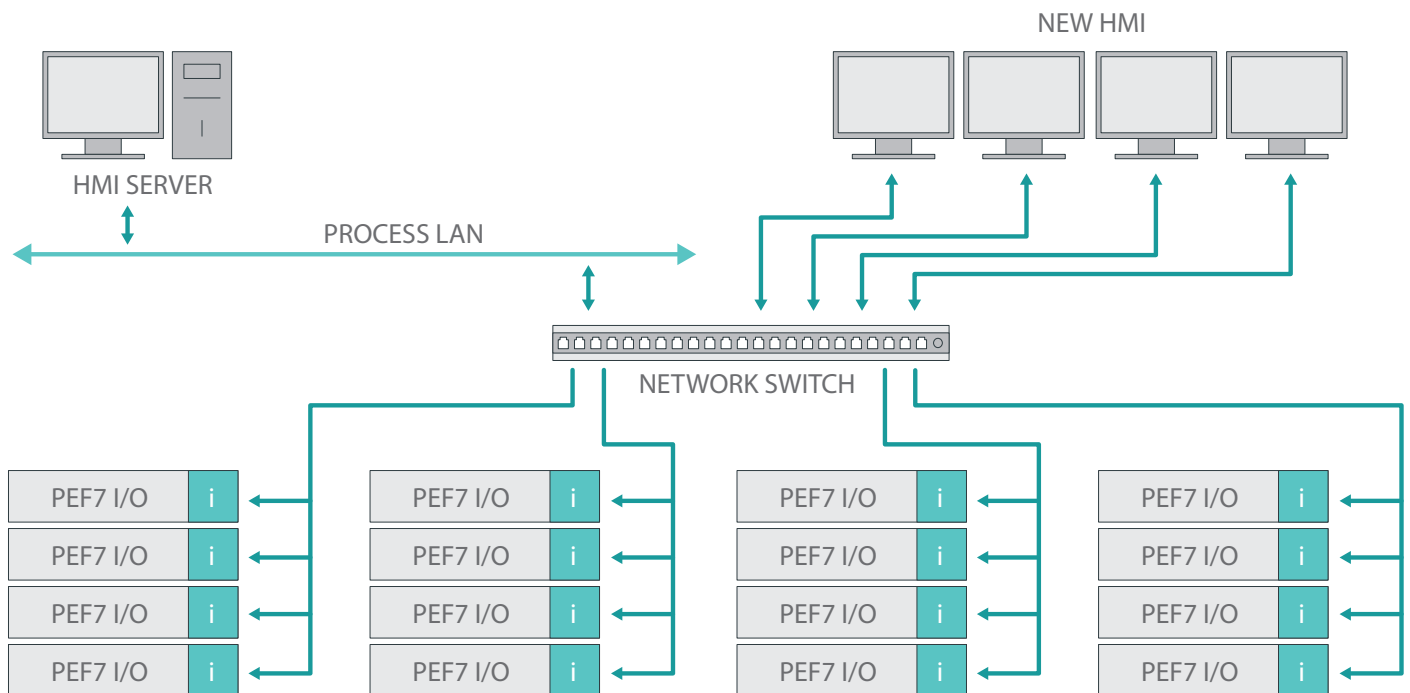
1. Passive mode which integrates with the existing SICOMP M installation.
2. Active mode which replaces the SICOMP M.

It is possible to reconfigure the iNET from passive to active mode allowing the transition from parallel operation with the SICOMP to one of replacing the SICOMP in a matter of seconds.

SICOMP PASSIVE INTERFACE



SICOMP REPLACEMENT ACTIVE INTERFACE



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TECHNICAL CHARACTERISTICS

Dual processing core with one real time processor and one communication processor.



- Linux 2.6 kernel on board in flash memory.
- No moving parts, reboot time < 10s.
- Time stamping at source with 1ms precision.
- Storage buffer capability for limited period based on plant activity.
- Approximately 200k events.
- Micro SICOMP functionality with alarm processing.
- Web server on board with diagnostic capabilities.
- Selectable data acquisition rates from 1ms. (active mode only).
- High speed analog acquisition limited only by the input card dynamics.
- Power Consumption 1W typical.



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HEAD OFFICE | GAUTENG | SOUTH AFRICA

13 -17 Rembrandt Str. | Petervale | Bryanston

P O Box 97757 | Petervale | 2151 | Z.A.

Tel. +27 (0)11 803 0570 | +27 (0)11 231 8900

Email. info@sam.co.za | Web: www.sam.co.za

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