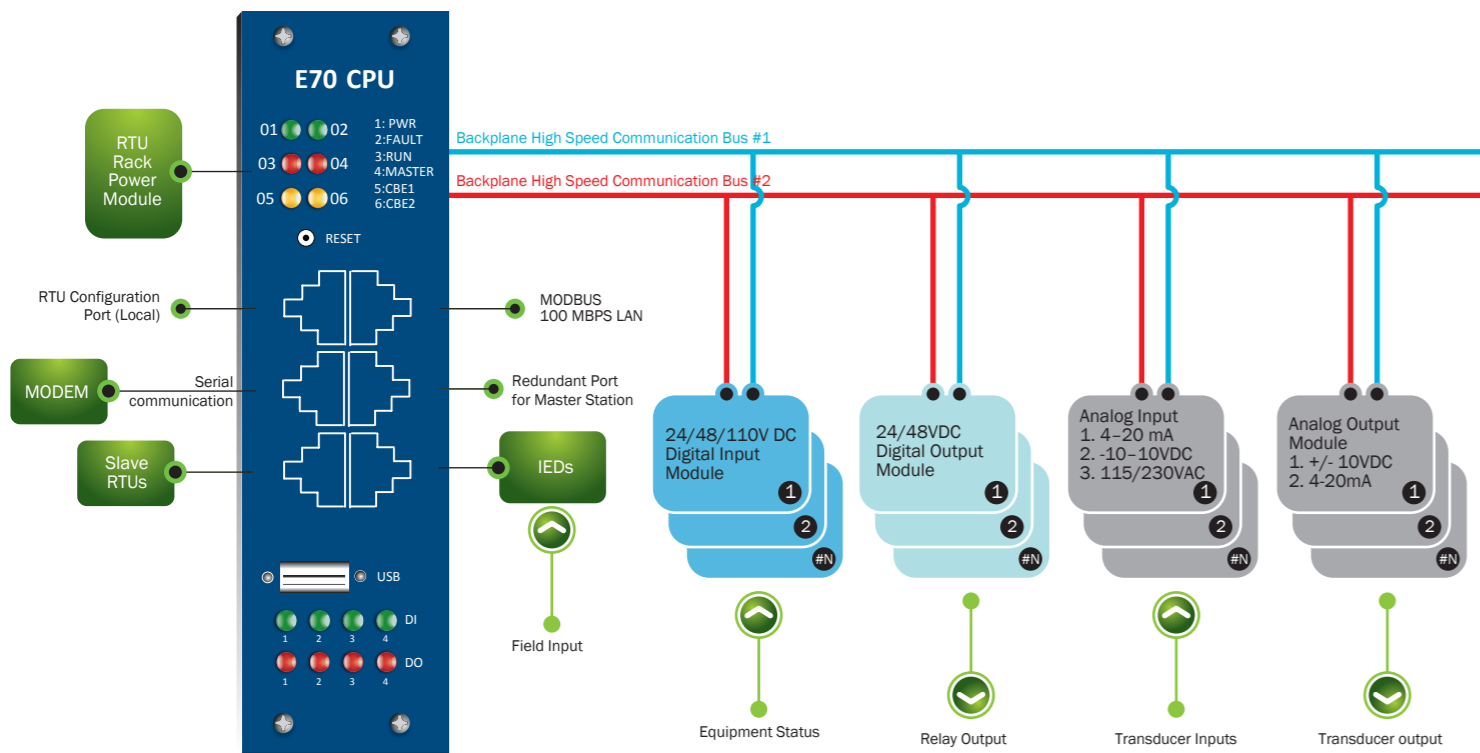


ARCHITECTURE ▾

- 19" wide, 4U high rack mountable
- Multiple rack support
- User-friendly Configuration
- Redundant High Speed I/O Bus
- Hot swap capability
- Multiple Master Capability

HUSKYTM
...An Intelligent RTU



RTU 6049-E70 is a mid-sized RTU designed for automation systems requiring high availability and easy maintainability. Its scalable architecture allows the users to match their investment with different levels of expansion. Features like redundant power supplies, redundant CPUs and hot swappable I/O cards, field isolation ensure high availability of the system. A variety of I/O modules ensure that all types of field inputs and outputs of a process can be interfaced with the RTU.

The CPU and all I/O cards, each with their dedicated microprocessors, provide distributed processing power to the RTU. Implementation of data processing and data buffering functions at each I/O card ensures that the CPU's processor remains free for execution of other vital functions, also addition of more I/O cards has a little impact on CPU processing power.

With its multiple ports and support for a very large set of communication protocols, the RTU can communicate with virtually any kind of IEDs like Numerical Relays, Event Recorders, Energy Meters, Governor Controllers, Temperature Scanners, Flow Computers, etc.

YOUR STATE-OF-THE-ART INDIGENOUS

COST-EFFECTIVE & RELIABLE

PROCESS WATCHDOG

HUSKYTM
...An Intelligent RTU



About us

Synergy Systems & Solutions, established in 1994, has come a long way to become one of the leading players in the control systems market in India. With more than 15 years of experience behind, it provides turnkey solutions to the automation needs of its customers. Right at the onset, Synergy Systems & Solutions, developed its state-of-the-art Supervisory Control and Data Acquisition (SCADA) software - SIRIUSTM. Since its introduction into automation market in the year 2000, SIRIUS has been deployed at numerous prestigious projects in Power, Railways, Oil & Gas sectors.

Another landmark development by Synergy Systems & Solutions, is now a state-of-the-art, world class, intelligent RTU - HUSKY, which complements its range to offer total in-house solutions to its customers.

Synergy Systems & Solutions, with its core team has an edge to offer competitive solutions which not only includes the supply, commissioning, maintenance of complete control systems, but also providing customized solutions and integration services.

Synergy Systems & Solutions aims to become the leader in control systems solutions in India.

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Ph: 91 129 2510501, 2, 3; Fax: 91 129 2510399; Web: www.s3india.com


SYNERGY
SYSTEMS & SOLUTIONS

HUSKY™

...An Intelligent RTU

RTU 6049-E70 is the latest generation in the HUSKY™ series of Remote Terminal Units (RTUs) from Synergy Systems & Solutions. Based on the experience of previous models, the RTU 6049-E70 has been redesigned to cater different industry-specific needs in a modular and expandable fashion.

HUSKY complements SIRIUS, Synergy Systems & Solutions' field proven SCADA/HMI software solution.

Care has been taken to ensure that the RTU complies with EMI/EMC regulations specified by ISO/IEC standards. The RTU has been certified by regional test laboratories for conformance to these standards. With a reduced footprint, the RTU 6049-E70 requires lesser panel space. All I/O terminations are provided at the rear, for easy wiring and deployment.

SALIENT FEATURES

MODULAR & EXPANDABLE

- Up to 4096 Digital and 1024 Analog I/O

FLEXIBLE

- Any combination of I/O modules

RUGGED & RELIABLE

- CPU, Power Redundancy
- Industrial Grade Parts
- Handles harsh environments

INTELLIGENT

- Intelligence at each level
- Application-specific intelligence

POWERFUL

- 32-bit high performance CPU
- Can handle multiple roles simultaneously

ENVIRONMENT FRIENDLY

- Lead Free, Uses RoHS compliant parts
- Low power consumption

MODULES

Wide Array of Modules for various application areas



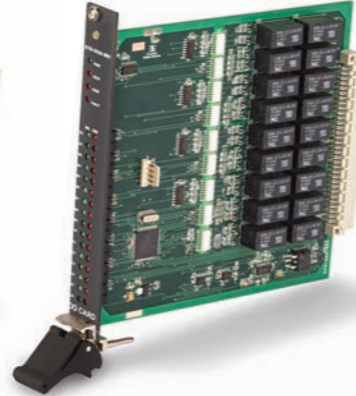
CPU E70

- 32-bit Processor
- Multiple serial ports
- On-board data storage
- CPU redundancy
- Industrial Grade



DIGITAL INPUT

- 24VDC, 48VDC, 110VDC Inputs
- Multiple Groups
- 1ms Sequence-of-Event recording
- 3700V Isolation
- Group-to-Group Isolation



DIGITAL OUTPUT

- 24/48VDC, 1A relay contacts
- Pulsed, Latched outputs
- Select-before-Execute (SBE)
- 3700V Isolation



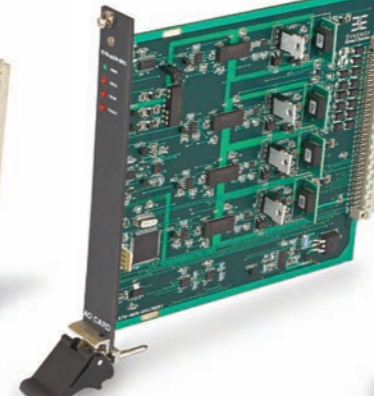
AC ANALOG INPUT

- 115VAC, 230VAC monitoring
- 16-bit resolution
- 0.1% accuracy
- Cut-off voltage monitoring
- 2000V isolation



DC ANALOG INPUT

- +/-10VDC, 0-20mA input
- 16-bit resolution
- 0.1% accuracy
- Self calibrating
- 1500V Channel-to-Channel isolation



ANALOG OUTPUT

- +/-10VDC, 4-20mA
- 16-bit resolution
- 0.1% accuracy
- Over current protection
- 1500V isolation



COPROCESSOR MODULE

- Additional communication ports
- Acts as expansion module for CPU
- Supports all protocols of CPU
- Isolated interfaces



POWER SUPPLY UNIT

- Wide input 18-72V DC
- 30W-80W
- High Efficiency
- Fail safe, Redundant
- Isolated, Regulated

INTERFACES

- RS232
- RS485
- Current Loop
- Ethernet
- Leased/Dialup Lines
- Radio
- GSM/GPRS
- PLCC

COMMUNICATION PROTOCOLS

- IEC 870-5-101, -103, -104 Master, Slave
- DNP 3.0 Serial/TCP Master, Slave
- Modbus RTU Master, Slave
- Modbus TCP Master, Slave
- SPORT

TIME SYNCHRONIZATION

- GPS based synchronization
- Master station based synchronization

Options

- From GPS Receiver Module
- 1PPS/1PPM signal
- NMEA 0183
- SNTP

CAPABILITIES

- Simultaneous Master and Slave
- Redundant communication channels
- Multiple Master Support
- Peer-to-Peer communication
- User-defined logics
 - Flow computation, PID Loops
 - Interlocking
- Data concentrator, Data logger, Sub-RTU, IED

APPLICATION AREAS

- Railway Traction
- Railway Signal & Telecom
- Oil & Gas Pipeline
- Power
- Water
- Utility
- Facility Monitoring