

KALKI Utility Gateway Plus

KUGP provides you Simple and expandable solutions for remote monitoring, control and logging of field data required for Electric, Water, Gas and Oil Utilities over various communication media and standards based communication protocols. Support of widely accepted protocols such as IEC-60870-5-101 / 103 / 104, DNP3 and Modbus makes it much easier to integrate the KUGP to SCADA, DMS and EMS systems from any vendor.

KUGP Controller Module

ARM based 32bit Processor,
 155 MHz Clock Speed,
 4Mb Flash, 16Mb RAM,
 Low power consumption,
 Sleep mode power management,
 Real Time Clock,
 10/100 Mbps Ethernet interface,
 Up to 4 Serial Ports,
 5 Digital Inputs,
 8 Digital Outputs,
 Input Supply 18-36 VDC,
 Power Consumption 7.5W excluding relays,
 Optional Supply Inputs like 48VDC, 240VAC,
 Optional Battery Backup for entire system,
 Remote/Local Configurations over Web,
 Supports Time Synchronization using SNTP,
 Exapandable using Various Input/Output modules,
 Operating Temperature -15°C to 70°C,
 Humidity 5% to 95% Non Condensing,
 EN 55024 Class A immunity,
 EN 61000-4-3 Electromagnetic field immunity,
 EN 61000-4-2 Electrostatic discharge immunity,
 EN 61000-4-4 Fast Transients immunity.

KUGP Communication Support

Protocol Support:

- DNP3 Serial Master/Slave
- DNP3 Network Master/Slave
- Modbus RTU/TCP Master/Slave
- IEC 61850 Client/Server Soon
- IEC 60870-5-101 Master/Slave
- IEC 60870-5-103 Master/Slave
- IEC 60870-5-104 Master/Slave
- IEC 62056/DLMS Client

Supports External GSM, GPRS, CDMA,
 RF, Radio Communication Modems
 Supports PPP for TCP/IP Communication
 Supports External GPS Serial Antenna

KUIOPU- DI16

Digital Input Module

16 Digital Inputs,
 Loop Voltage 24V DC, Max 8 MA
 Inputs Configurable as Double or Single
 Indications,
 Optical Isolation of 1500V DC,
 Time Tagging within the Module for
 SOE.

KALKI Utility Gateway Plus

KUIOPU-DO8 Digital Output Module

8 Digital Output Relays,
Form A or Form C contacts,
Ratings available with 6A/110VDC, 6A/220DC,
6A/240VAC.
SBO Commands,
Double Command Support,
2.5KV Isolation.

KUIOPU-DO16 Digital Output Module

16 Digital Outputs,
Contact Rating Max 2A @ 24VDC,
SBO Commands,
Double Command Support.
2.5KV Isolation

KUIOPU-TI Transducer less Input Module

Digital Signal Processing (DSP),
Direct Interface with CT/PT
Measures RMS Voltage, RMS Current for
all phases,
Measures Active Power, Reactive
Power, Apparent Power and
Frequency.
Can be customized for Power Quality
Analysis.

KUIOPU-AI8 Analog Input Module

8 Analog Inputs,
Input Ranges 0-20MA, 4-20MA, 0-5VDC,
0-10VDC, ± 5 VDC,
Resolution 12 Bits and One Sign Bit,
Input Isolation 500V,
Input Impedance 10Mohm,
Two terminals per Input (+ and -).

Kalki Utility Gateway Plus has got a wide number of applications such as Electrical Transmission and Distribution Automation, Substation Automation etc. KUGP is expandable from a Micro I/O Configuration with RTU and Control Capabilities to a small, and medium sized I/O Configuration. It best fits as a cost effective solution for Capacitor Bank Controls, Power Quality Analysis, Switch Gear Controls, Transformer Monitoring and Pole Top RTU'S.

Pricing and Availability:

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