

KSGL/S/OEM is a migration platform for legacy systems to standards based communication platforms. The embedded board is in form-factor's that are small enough to fit into most existing hardware product platforms be it RTU, Numerical Relays or Data Concentrators.



Figure – 1 OEM module

The Embedded module has varied set of communication interfaces like SPI, I2C, TTL and Ethernet for interfacing with legacy systems.

The Embedded module comes with packaged support services, which helps customers, easily adapt the module to their specific hardware and software interface environments. The module, can support all the standard protocols, and can convert most legacy protocols to standard protocols.

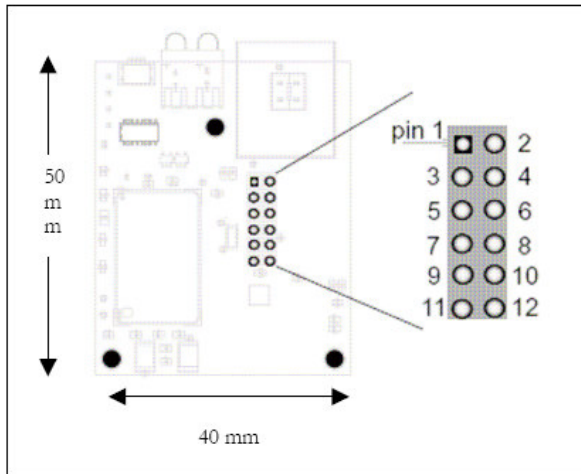


Figure – 2 Dimensions

The embedded module is ideal for migration to the IEC 61850 Platform. The module is also ideal for migration from legacy to IEC or DNP3 standard protocols.

Datasheet		
Topic	Feature	Description
Communication	Serial	2 High Speed TTL Ports, I2C and SPI Interfaces
	Network	1 Ethernet 10/100 Base-T Controller on Board.
	Maintenance	Ethernet Port can also be used for maintenance and diagnostics
Software	OS	Thread-X Real-Time OS
	Networking Support	TCP/P, UDP, SNMP and Host of other Native Protocol Support
	Encryption	AES/DES Support
	RTU Point Support	Supports upto 1500 Point Database
Applications	Development Tools	GNU Tools
	Protocol Translator	Protocol Gateways for existing RTU and IEDs
	Network Transport	Enables Ethernet Access to your RTU/PLC/IED.
	Pass Through Port	Pass-Through Port allows your IED Configuration Software to communicate through the Converter to the IED without any modification.
Hardware	Processor	ARM7 (ARM+32)-based 32-bit RISC CPU, 55 Mhz
	Power	3.3 VDC, Max 10 Watt Consumption
	Temperature	-40° to 85° Operating
	Humidity	5 to 95° RH
	Activity LED's	Activity LED's for Ethernet Channels are provided
	Mounting	Can be mounted in many ways into your existing PCB / Enclosure



KALKI SUB-STATION GATEWAY LITE/S/OEM Embedded Module

	RAM	8 MB RAM		
	FLASH	4 MB Flash		
Protocol Support	DNP3 Serial	IEC 60870-5-104	IEC 60870-5-102	UCA2.0
	DNP3 Network	Modbus RTU/ASCII	DLMS/IEC 62056	GE SRTP
	IEC 60870-5-101	Modbus TCP	ABB RP570/571	ABB SPA
	IEC 61850	IEC 60870-5-103		
Ordering Information	Model		KSGL/S/OEM	
	Protocol		Specify Protocol's to be supported	