

iBOX KIT

The iBOX Kit from GE Vernova Energy provides powerful, cost-effective substation and feeder control solutions combining multiple communication ports and protocols, IEC® 61131-3 automation, and local I/O, in a small footprint that is ideal for retrofit and upgrade projects. In addition to the flexibility of the standard iBOX*, this kit provides the added benefits of AC or DC analog inputs, Ethernet, and support for a wide range of power supply input voltages. The iBOX Kit is built on a 19" wall or rack mountable panel.

Applications

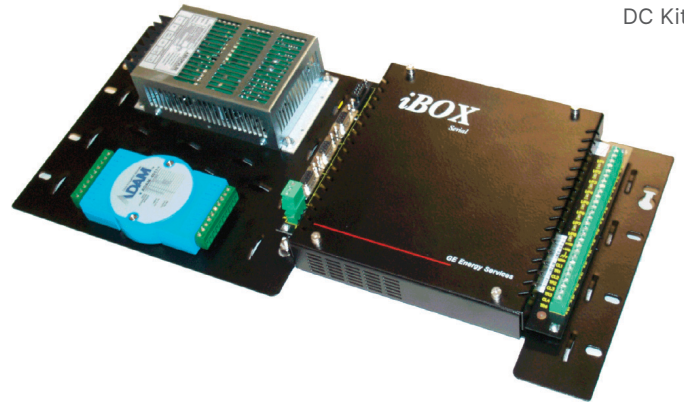
- Feeder control and monitoring for DA substations.
- Protocol converter.
- LAN enable existing IEDs.
- Custom automation platform (LogicLinx* – IEC61131-3).
- Transformer monitoring.

Benefits

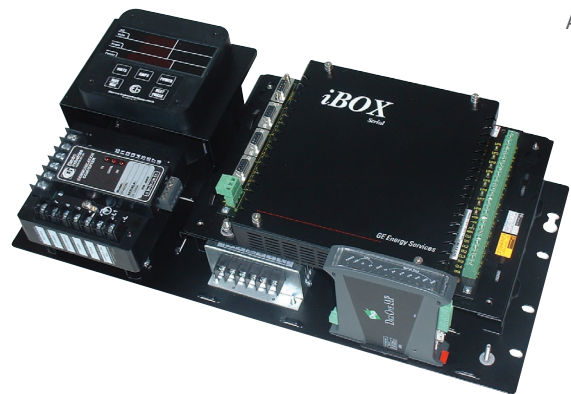
- Low cost protocol converter using our comprehensive protocol library enables remote access to real time and non-operational data from a wide variety of substation and feeder IEDs such as protection relays, voltage regulators, recloser controllers, revenue and demand meters and capacitor bank controllers.
- Low unit cost makes it affordable to automate small substations and feeders using GE Vernova's library of applications¹. This enables improved system reliability, enhanced utilization and management of substation and network assets, and optimized use of operations and maintenance resources.

¹ For more information on available automation applications refer to "PRPI-048 D20, D25, iBOX Automation Applications."

DC Kit



AC Kit



Features

- Multiple DC analog input options enable monitoring of a wide variety of transducer outputs.
- Direct AC analog input options enable transducer-less monitoring of voltage, current, power and energy.
- Ethernet or serial communications connectivity.
- Vast communication protocol library.
- Wide power supply input range allows easy installation in different environments.
- High current carrying capability of control relays eliminates the need for external interposer relays in many cases.
- Protection against the mis-operation of controls due to single component failures.
- "Select before operate" control procedure issues secure and reliable control operations.
- IEC 61131-3 logic is implemented with the optional Microsoft® Windows®-based LogicLinx soft logic editing tools that enable the user to develop high value automation applications for installation onto the iBOX Substation Kit.
- Demodulated IRIG-B input may be used to ensure accurate SOE event recording.
- Automation applications can include Volt/VAR control, auto-sectionalizing programs, load-shedding applications, auto restoration programs and other feeder and substation automation applications.

Digital Inputs

- 8 optically isolated status/SOE/counter inputs.
- LED indications.

Control Outputs

- 4 Trip/Close pairs or 2 Trip/Close pairs and 2 Form A contacts.
- Separate Master Trip and Master Close relays.
- Protection against erroneous operation due to a single point of failure.
- Select-before-operate (SBO) functionality.

DC Analog Input Option

- 8 DC analog inputs.
- DC voltage options: +/- 1 VDC, +/-5 VDC, +/-10 VDC.
- DC current options: +/- 1 mA, +/-20 mA, 4-20 mA.

AC Analog Input Option

- 3 PTs: 120/208 V.
- 3 CTs: 5 A.

Communications

Protocols:

- DNP3, Modbus® and IEC-870-101 included (many others available as options)
- RS-232/485
- 10/100 BaseT Ethernet option
- Wireless IP Radio ready: serial PPP connection

Power Supply

Input options:

- 20–60 VDC
- 88-264 VAC / 88-360 VDC

For more information, visit
gevernova.com/grid-solutions

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