

# InteliDrive Lite

## ENGINE CONTROLLER FOR GENERAL PURPOSES



### Description

The InteliDrive Lite is a cost effective sophisticated engine controller, which features outstanding control, monitoring and protection for both mechanical and electronic diesel / gas engines in one unit. The extended product family offers a range of engine specific versions suitable for land-based and marine non-classified applications.

It can communicate via standard and proprietary CAN J1939 communication protocols to a wide range of EFI engines (both single-speed and all-speed), which include Caterpillar, Cummins, Deutz, Detroit Diesel, GM, Iveco, Isuzu, John Deere, MAN, MTU, Perkins, Scania, Sisu, Volvo Penta and others. The controller comes with LiteEdit PC software enabling the user to freely configure the inputs and outputs to suit individual requirements.

Like all ComAp products, InteliDrive Lite features a powerful graphic display providing user-friendly information in an easy to understand format. Real time clock and event and performance history log are priceless when it comes to troubleshooting. Remote control and monitoring is possible via analog/GSM modem or Internet. Instrumentation of internal values on analog gauge makes it easy to use, even for untrained personnel.

### Benefits

- ▶ Integrated solution – less wiring and components
- ▶ Available Remote Display panel – economical solution for remote control
- ▶ Analog gauge (VDO, Datcon, etc.) outputs – operator friendly
- ▶ History log – easy troubleshooting
- ▶ Pressure regulation loop and Load limitation
- ▶ Smooth engine speed control
- ▶ Less engineering and programming
- ▶ Perfect price/performance ratio



ComAp is a member of AMPS (The Association of Manufacturers of Power generating Systems).



ComAp products meet the highest standards, with every stage of production undertaken in accordance with the ISO certification obtained in 1998.



Selected ComAp products have the UL Certification.

## Features

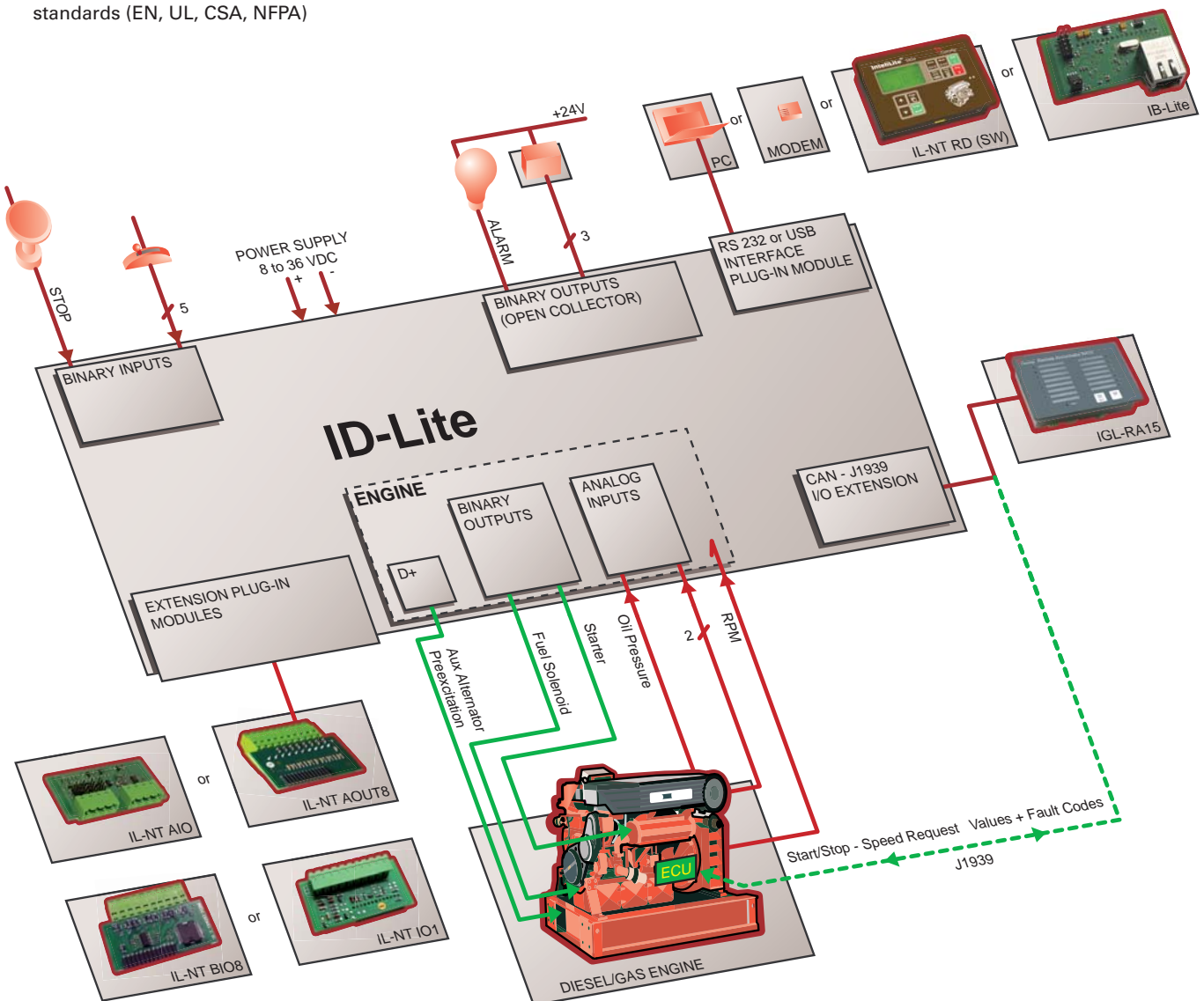
- ▶ Engine control, monitoring and protection
- ▶ Support of engines equipped with Electronic Control Unit (ECU) – J1939 or Cummins Modbus interface
- ▶ 6 configurable binary inputs and outputs
- ▶ 3 configurable analog inputs
- ▶ VDO type analog gauges outputs – 8 configurable channels
- ▶ Selectable protections alarm/shutdown
- ▶ Setpoints adjustable via keyboard or PC
- ▶ 1 level of password protection
- ▶ USB, RS485 or RS232/Modem/Modbus communication
- ▶ Real time clock and event history log
- ▶ Engine speed control by 3 predefined binary inputs, Speed Up/Down binary inputs or one analog input
- ▶ PLC functions: PID loop, Comparators, Timers
- ▶ Analog oil pressure, water temperature, fuel level, battery voltage, engine speed (pick-up)
- ▶ Automatic or manual start/stop of the engine
- ▶ Push buttons for simple control, lamp test
- ▶ Graphic back-lit LCD display 128 x 64 pixels
- ▶ 2 LED indicators
- ▶ Front panel sealed to IP65
- ▶ Power supply 8–36 VDC
- ▶ Operating temperature:
  - 20°C to +70°C regular unit
  - 40°C to +70°C low temperature unit
- ▶ IntelliDrive Lite controller meets several standards (EN, UL, CSA, NFPA)

## Communication modules and PC tools

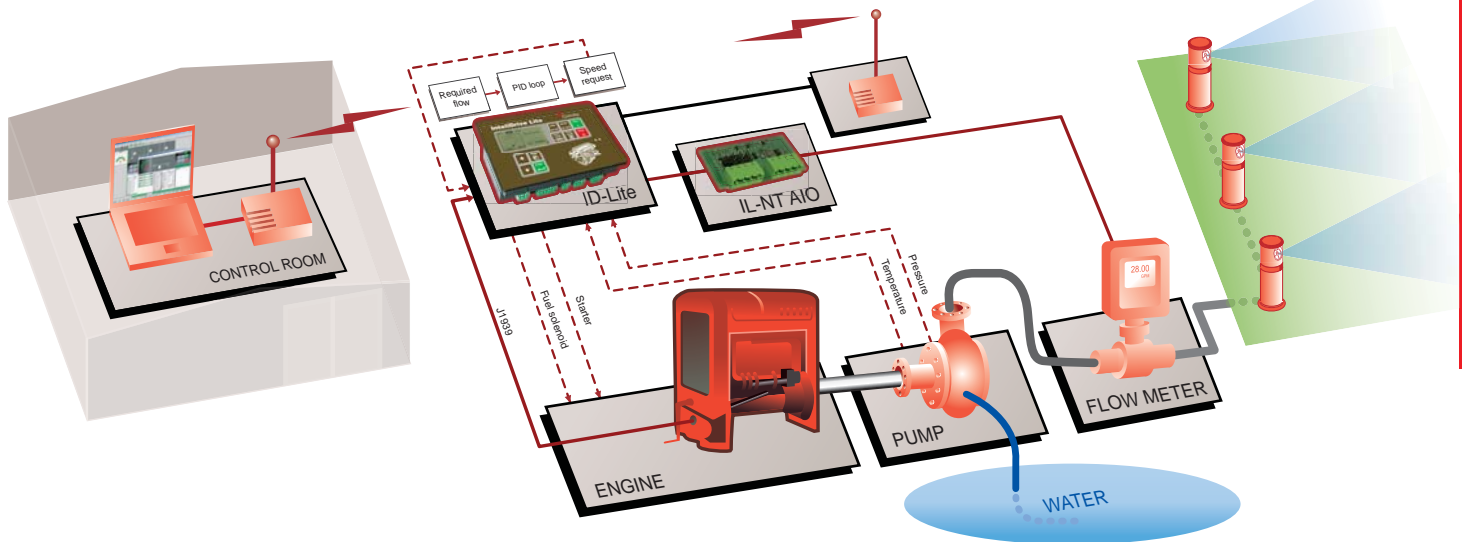
- ▶ **IB-Lite** – Internet/Ethernet Plug-in Module including Web Server
- ▶ **IL-NT RS232** – RS232 Extension Board
- ▶ **IL-NT RS232-485** – Dual Port Extension Board
- ▶ **IL-NT S-USB** – Plug-in Service USB Module
- ▶ **WinScope** – Special Graphical Controllers' Monitoring Software
- ▶ **LiteEdit** – PC Configuration and Monitoring Tool

## Extension modules and remote display

- ▶ **IGL-RA15** – Remote Annunciator
- ▶ **IL-NT AIO** – Analog Input/Output Module
- ▶ **IL-NT AOUT8** – Analog Outputs for PWM Gauges Module
- ▶ **IL-NT BIO8** – Binary Input/Output (PWM) Module
- ▶ **IL-NT IO1** – Analog Input/Output Module
- ▶ **IL-NT RD (SW)** – Remote Display Software for IntelliLite<sup>NT</sup> and IntelliDrive Lite Controllers

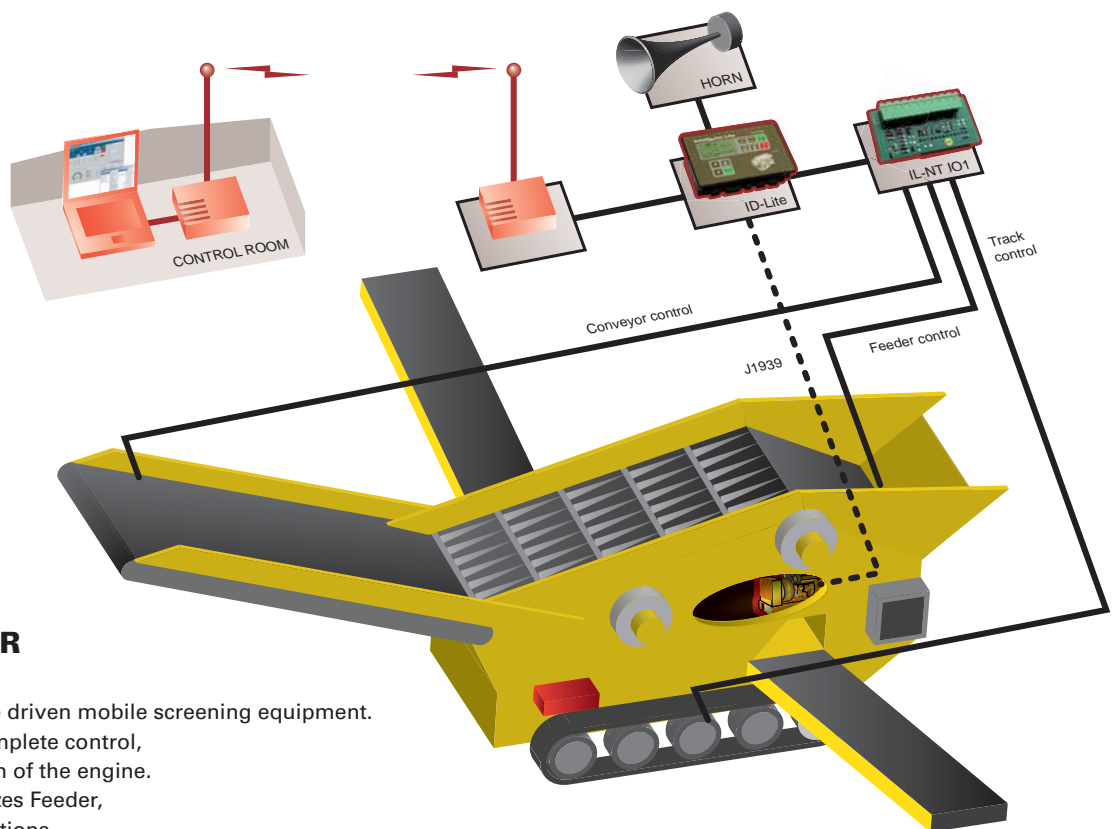


## Typical applications



### IRRIGATION PUMP SYSTEM

- ▶ Irrigation pump is driven by combustion engine.
- ▶ IntelliDrive Lite makes complete controls, monitoring and protection of the engine.
- ▶ Water flow from a pump is measured by flow-meter. IntelliDrive Lite controls variable speed engine, which enables to change water flow according momentary need.
- ▶ IntelliDrive Lite protects engine against overload via engine load limitation function based on Load information from ECU.
- ▶ The system status and required flow is monitored and adjustable via GSM modem from a central supervision point via integrated and enhanced PLC logics, as well as the engine-speed load is controlled via PID-loops.
- ▶ The advanced bi-directional CAN-Bus communication helps simplify the wiring to the engine.



### MOBILE SCREENER

- ▶ Systems involving engine driven mobile screening equipment.
- ▶ IntelliDrive Lite makes complete control, monitoring and protection of the engine.
- ▶ IntelliDrive Lite synchronizes Feeder, Conveyor and Track operations.
- ▶ IntelliDrive Lite secures safety function of machine.
- ▶ The system can be monitored via GSM modem from a central supervision point.

# InteliDrive – a proven family of technology driven solutions

## InteliDrive Fire Pump Control

### MODULAR ENGINE CONTROLLER FOR FIRE CONTROL

- ▶ InteliDrive Fire Pump Control (following the NFPA 20 standard) is designed for diesel driven fire pumps applications. The solution is based around the hardware of a standard ComAp industrial engine controller, with a proven track record for flexible and reliable control of standby and synchronized gas or diesel generator applications. The control system incorporates two battery starter systems; the controller monitors the voltage on both battery systems, automatically switching between battery sets on a cyclic basis or low battery voltage condition. The controller has configurable digital inputs and outputs which are set up to suit the installation requirements.



## InteliDrive DCU Industrial

### MODULAR ENGINE CONTROLLER FOR INDUSTRIAL APPLICATIONS

- ▶ The InteliDrive DCU Industrial is a highly flexible sophisticated engine controller, which features outstanding control, monitoring and protection for both mechanical and electronic diesel / gas engines as well as peripheral equipment. The extended product family offers a range of engine specific versions suitable for land-based applications. Most commonly, these tailored applications meet the specific control requirements of engine driven compressors, pumps, screeners, crushers, drill rigs.



## InteliDrive Mobile

### ELECTRONIC CONTROLLER FOR MOBILE APPLICATIONS

- ▶ The InteliDrive Mobile is a highly flexible sophisticated mobile electronic controller, which features outstanding control, monitoring and protection for diesel and gas engines as well as driven technology. The new controller offers range of specific functions suitable for mobile applications as hydraulic system control, communication with sensors and operational devices control.



For more information about our products and applications visit

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