Go-IoT

Take control of the past, the present and the future!

Modular hardware and software solutions for the Horizontal IoT Industry -

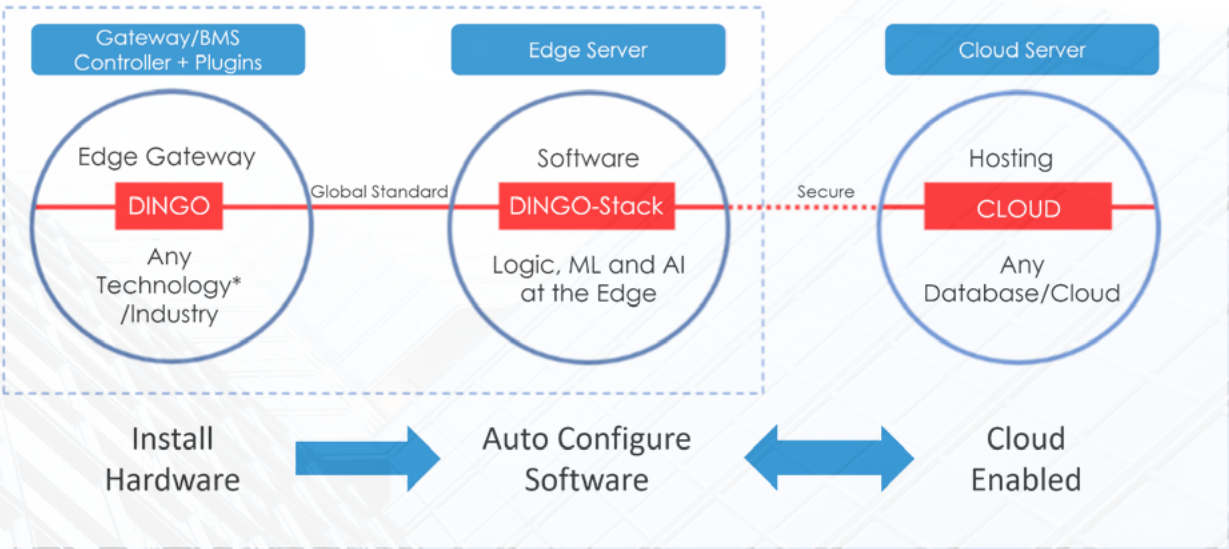
Specializing in Building Automation

ONE Open, modular and secure solution from sensor to Cloud

Create your own apps in whatever language you want and have them communicate with all devices and sensors in one modular solution.

Go-IoT Sensor to Cloud

Enabling access and control to ALL data from the edge to the cloud remotely, securely in an open and modular way.



Ensuring lifetime Building Performance

- None-BACnet protocols gatewayed to BACnet in one device by software.
  After that all devices seen as BACnet-devices. Any vendor that supports BACnet, is also 100% supported by the solution
- Cloud security with encryption and OAuth 2.0 authentication, equivalent to VPN
- Scalable from few sensors/actuators in-building to thousands by the Edge Server, using small footprint hardware to any database of choice, combining the old with the new!
- BACnet/WS and/or BACnet/IT enables moving software components from the Cloud to Edge and vice versa

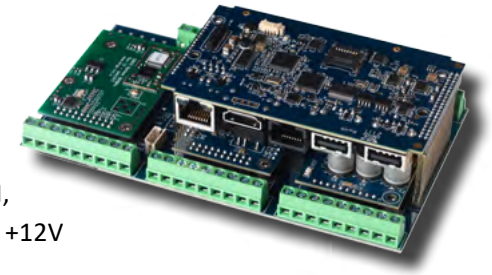
Figure 1. Dashboard enabled by Node-RED. Simple drag and drop with any software application on the market, from sensor to cloud!

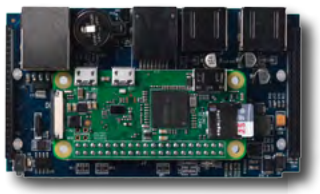
Go-IoT Dingo CORE PCBs

Raspberry PI

CB-PI Compute

Raspberry PI Compute 1 or 3 compatible
Ethernet 10/100, HDMI, SD Holder, 4 USB Ports, I2C Root of Trust, RS232, RS485, 3 x TTL Serial Ports, RTC with Battery Backup, EEPROM, 1 wire, I2C, SPI, 21 x GPIO Expansion, DC Input +12V





CB-PI Zero

Can be used with Raspberry PI Zero or PI ZeroW, Ethernet 10MB, 2 USB Ports, Root of Trust, RS232, RS485, 2 x TTL Serial Ports, RTC with Battery Backup, EEPROM, 1 wire, I2C, SPI. 21 x GPIO Expansion, DC Input +12V

i.MX6 ULL

CB-IMX6UL/ULL

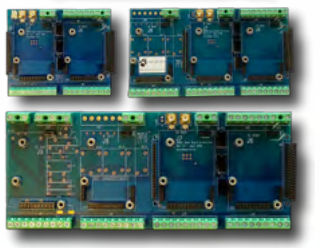
NXP iMX6UL / ULL - Speed up to 900MHz
RAM upto 512Mbyte , NAND up to 512Mbyte , eMMC up to 8GByte
2 Ethernet 10/100, POE, SD Holder , 4 USB Ports , RS232 , RS485 , I2C Root of Trust
2 x TTL Serial Ports, RTC with Battery Backup, EEPROM, 1 wire, 2 x I2C, SPI
24 x GPIO Expansion, DC Input +12V

ATxmega

CB-ATXMEGA

Atmel ATXMEGA256A3U/ATXMEGA256C3 @32MIPs, RAM 16KByte, FLASH 256KByte, EEPROM 4KBYte, RS232, RS485, 3 x TTL, Serial Ports, RTC with Battery Backup 1 wire,1 x I2C, SPI,
21 x GPIO Expansion, DC Input +12V

BaseBoards



BaseBoard 2 - 3- or 4 Position

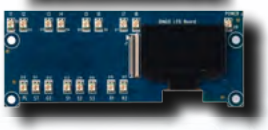
Up to 4 Plug In positions, 3 x USB, 2 x Serial,
1 I2C, SPI. 8 Opto Isolated Inputs, up to 5 Relays,
Battery Backup Charger -3.3Ah. 3 N Channel FET Outputs, DC Input up to +48V
4 Station – Integrated 110V/220V AC PSU

Expansion

CD-PI3-EXPANSION

HAT for PI 3+, 3, 2+, 2
USB, Serial TTL, RTC with Battery Backup, EEPROM 4K x 8, I2C Port, SPI, Intelligent UPS, DC Supply Monitoring, Battery Charger, DC Input +12V to +42V

Display Boards



UB-LED_LCD

17 Dual Read / Green LEDs controlled by I2C TLC59116 LED Controller 128 x 64 OLED 1.3” Graphic LCD 1.8” Colour LCD 160 x 128 with 4 Keys also available upon request

Go-IoT Plugins

Powerline

PG-PINGO
Transmits data over Power Lines
using CENELEC B 95Khz to 125KHz
Baud Rate 50 - 3200 BPS
LED for Comms Status, DC Input +12V

PG-PINGO 2
Powerline communication based on HomePlug Green PHY Data Transmitted as TCP/IP Ethernet packets. Protocols CSMA, Modulation OFDN-1155 & QPSK ROBUST modov
Range up to 300 Meters, Power Line 95-265VAC

PG-PINGO 3
Fully compatible with HomePlug Green PHY and AV Standards. Protocols CSMA, Modulation OFDN-1155 & QPSK ROBUST modo
Security 128bit AES data encryption, Range up to 300 Meters. Power Line 95-265VAC, 45-65Hz, 4 Serial Ports, i2C, ADC, DAC, SSP

RS-485

PG-RS485
USB or Serial Input
4 wire Full Duplex, 2 wire Half Duplex
LEDs for TX and RX
Isolation Voltage 2.5KV
DC Input +5V

MBus

PG-MBUS80
USB or Serial Input
Interfaces upto 80 MBus Meters
MBUS Voltage 36V LEDs for TXD and RXD Isolation Voltage 2.5KV
DC Input +5V

PG-MBUS05
USB or Serial Input
Interfaces upto 5 MBus Meters
MBUS Voltage 36V, LEDs for TXD & RXDIsolation Voltage 2.5KV,
DC Input +5V

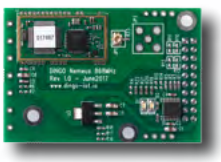
EnOcean

PG-ENOCEAN
USB or Serial Input, EnOcean Transceiver TCM310, Frequency 868 / 902,928MHz
Data Rate 125Kbps
DC Input +5V

Analog Input

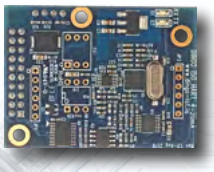
PG-AI4
4 Channel Opto Isolated Analog Input
Module 0-2V , 0-5V , 0-10V , 4-20mA Single Ended Inputs Differential Inputs
DC Input +5V

LoRa-Sigfox



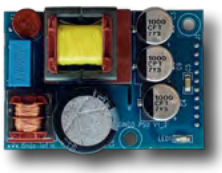
PG-NEMEUS
USB or Serial Input, LoRa Sigfox Transceiver MM002, Frequency Band 434 / 868MHz
Data Rate up to 300kbps or 10937bps LoRa,
DC Input +5V

HART



PG-HART-4-20ma
HART Modem – Maxim DS8500
Half-Duplex Modem Overlays 1200bps FSK
USB, Serial TTL,
DC Input +5V

Power Supply



PG-PSU
90V AC to 240V AC Input, Isolation Voltage 2.5KV RMS
+12V @ 1A output

GSM - 3G

PG-GSM-3G
USB or Serial Input, Quectel UG96 GSM Module, 5 Band, Data Rate upt to 5.76Mbps, LED Indicators
DC Input +5V

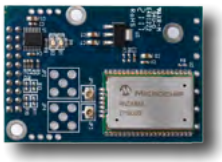
XBEE -Zigbee

PG-XBEE
USB or Serial Input, XBEE Transceiver EM357, Frequency Band 2.4GHz, Range upto 90m, Data Rate up to 250Kbps, LED Indicators
DC Input +5V

NB-IoT

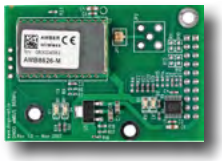
PG-NB-IOT
USB or Serial Input, Quectel BG96 GSM Module, 4 Band, Data Rate up to 375Kbsp, LED Indicators
DC Input +5V

LoRa



PG-LORA
USB or Serial Input, Lora Transceiver RN2483A, Frequency Band 434 / 868MHz, Data Rate up to 300Kbps or 10937bps LoRa,
DC Input +5V

wMBus



PG-WMBUS
USB or Serial Input, wMBUS Trans-ceiver AMB8x46, Frequency 868MHz, Data Rate upto 100Kbsp. Range up to 14000m LED Indicators,
DC Input + 5V

DALI

PG-DALI
DALI MASTER – 64 Slaves (ballasts) – 2 wire Differential Output. Isolation Voltage 2.5kV, 4 LED Indicators – TXD, RXD, Status, Error, Serial TTL, USB,
DC Input + 5V

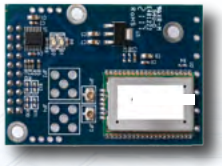
CLICK

PG-CLICK
Expansion PCB for CLICK Module (up to double size) Serial TTL, USB, I2C, SPI, 2 LED Indicators – TXD, RXD
DC Input +5V, +3.3V

MiniPCI

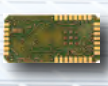
PG-MiniPCI
Expansion PCB for miniPCI Modem or LoRa Basestation. USB,
LED Indicator
DC Input +5V

HART



PG-NB-HART
HART Transceiver Module – RM1100S
HART Regulation HCF_SPEC-155 V2.0,
HART Field Strength HCF_SPEC-13 V7.4
Frequency 2.405GHz – 2.475GHz,
DC Input +5V

LumenRadio



RADIOCRAFT

CASCODA