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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SmartSwarm 341



Asset Integration Gateway

Features

- Configurable user business logic data processing & display engine
- Comprehensive data outputs via MQTT, email, SMS and a variety of other . services and database connections
- Integrates data from WZZARD, WISE, ADAM & third party devices
- Integrates data from internet feeds
- Cellular or Ethernet connection to IIoT system
- Acts as LAN to WAN bridge for third party device connection
- Cellular (EMEA/NATAM support) and wired models available

Introduction

Seamlessly integrate data from diverse systems, devices and sensors into the IoT

The SmartSwarm 341 IIoT gateway is aimed at owners of remote assets wishing to integrate data from their assets into IIoT applications like dashboarding, analytics or predictive maintenance. Data can be collected from a number of sources, including web feeds, databases and files, as well as from locally connected physical devices and sensors. SmartSwarm 341 includes an interface and manager for B+Bs Wzzard wireless sensor platform that provides robust acquisition and transmission of sensor data without installing cables. For bulk I/O requirements where cabling is not an issue, it is also compatible with WISE and ADAM Ethernet connected I/O modules.

User Applications

SmartSwarm 341 offers flexible data acquisition, processing and handoff via an inbuilt Node-RED user application environment. Node-RED is a powerful, yet simple to use, application programming environment optimized for processing data streams. Users drag and drop function nodes to acquire, processes and output data, via an internal web server interface provided by the SmartSwarm 341. Crucially, the Node-RED environment is contained, meaning that any user error made in programming cannot crash the gateway, which will remain connected and available for remote management in order to correct errors without site visits. In addition to offering local data processing, the Node-RED environment is also able to create and serve local dashboards, providing a mechanism to serve summary data to engineers, managers or operational staff.

Specification

WZZARD RADIO - 802.15.4E, 2.4 GHZ

 Number of Channels Channel Separation Channel Clear Frequency Modulation 	15 5 MHz 2405 + 5* (k-11) MHz IEEE 802.15.4 Direct Sequence Spread (DSSS)	d Spectrum
 Raw Data Rate Range (25 °C, 50% RH, +2 dBi omni-directional antenna, antenna 2m) Receiver Sensitivity Receiver Sensitivity Output Power (delivered to a 50 Ω load) 	250 kbps Indoor Outdoor Free Space Packet Data Error Rate (PER) = 1% Packet Data Error Rate PER = 50% High Calibration Setting Low Calibration Setting	100 m 300 m 1200 m -93 dBm -95 dBm 8 dBm 0 dBm
Ports, LEDs, Antennas		
 (2) Ethernet Ports SIM LED Indicators Wzzard RST *Optional-3x ANT-ANT, DIV SD (USB) 	RJ45, 10/100 Mbps (2) Mini SIM, 2FF, 1 supported (rear p PWR, DAT, WAN, ETH, SIM, USR, PO R-SMA connector RESET button (rear panel) SMA connectors Available for file storage from Node-R (currently unsupported)	e, inó, in1, out
Power		
 *Optional - Power Supply Power Consumption 	$10-60\ V_{\text{DC}}$ (2–Way Molex connector Idle: 2.5 W)

Average: 4 W

Sleep Mode: 10mW

Peak: 11 W

Environmental

 Temperature Range 	Operating: -40 to +75 °C Storage: -40 to +85 °C Operating: -20 to +60 °C Storage: -40 to +85 °C Operating: 0 to 95 % Storage (Non-condensing): 0 to 95 %
 Temperature Range LTE450 	
 Humidity 	
Cold Start	-35 °C
 Operating Altitude Ingress Protection Rating 	2000 m / 70 kPa IP30
Mechanical	
Metal case with metal DIN ratio	il
DimensionsWeight	55 x 97 x 125 mm (2.17 x 3.82 x 4.9) 375 g
Industry Certifications & A	Approvals
- Dedie fer nenevel LTC	TTOLEN 201 E11 VO 0 2 ETCLEN 201 00

 Radio for general LTE 	ETSI EN 301 511 v9.0.2, ETSI EN 301 908–1 v5.2.1, ETSI EN 301 908-2 v5.2.1, ETSI EN 301 908-13 v5 2 1
Emissions/ Immunity	IEC 61000-6-2:2005, ETSI EN 301 489-1 v1.9.2, EN 55022:2010
 Safety 	EN 60950-1:06 ed.2 (not Hazardous Locations), EN 62311:2008
Vehicle	EN 02311.2000 E8

 Environmental RoHS, RoHS2, REACH, WEEE

BB-SG30300520-41

BB-SG30300525-41

Ordering Information

- BB-SG30000520-41 2 Ethernet, Dust (no power supply) BB-SG30000525-41
- 2 Ethernet, Dust, International Power Supply 2 Ethernet, LTE-EMEA, Dust (no power supply) 2 Ethernet, LTE-EMEA, Dust, International Power
- Supply 2 Ethernet, LTE-NATAM, Dust (no power supply) BB-SG30500520-41

AD\ANTECH **Industrial Ethernet Solutions**