



# iDERMS RTU

DERs management system /  
Hardware and data service



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High Security  
& Reliability

02

Granular Data  
Acquisition

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High  
Compatibility

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& Protection

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Edge  
Computing

Encored Technologies, Inc.

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# ENCORED

# SPECIFICATIONS

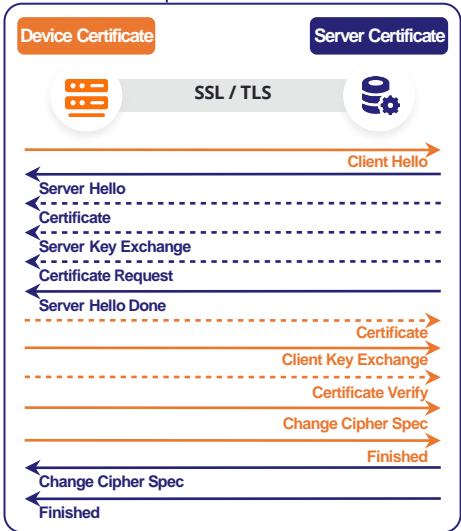
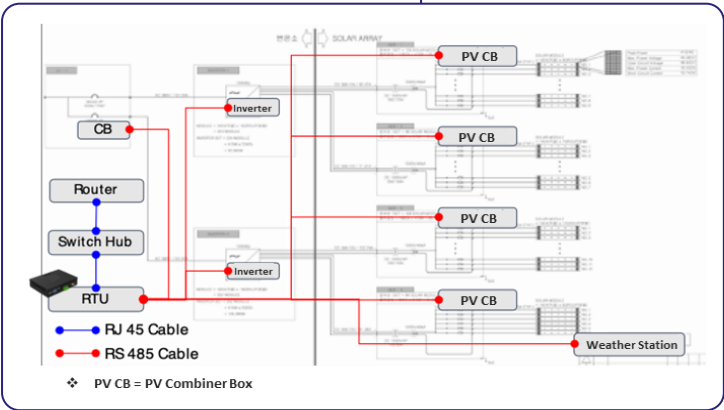
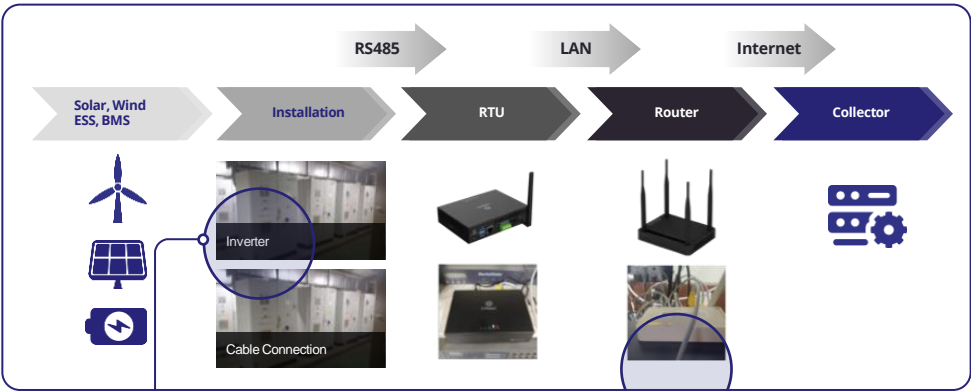


- iDERMS RTU (Remote Terminal Unit)
- Complete connection of over 80 inverter models, PCS, BMS, etc.
- Supports edge computing within device itself

<b>GENERAL DESCRIPTION</b>	<b>Type</b>	Energy Data Gateway (RTU)
	<b>Gathering Target</b>	Inverter / Meter/ PCS/ BMS, etc. (Minimum Data Collection Interval : 1 sec.)
	<b>Number of Devices</b>	~15
	<b>Transmission Interval</b>	1~15 minute
	<b>Communication</b>	Wire / Wireless Connectivity
	<b>Dimension</b>	150 x 110 x 39 (mm)
<b>ELECTRICAL SPECIFICATIONS</b>	<b>Power Supply</b>	DC 5V
	<b>Operation Temperature</b>	0°C ~ 50°C (Recommended)
	<b>Power Consumption</b>	~15W
<b>COMMUNICATION</b>	<b>Connectivity</b>	<ul style="list-style-type: none"> <li>• Front-haul : Serial, Ethernet</li> <li>• Back-haul:                             <ul style="list-style-type: none"> <li>• Wi-Fi : 2.4GHz/5GHz IEEE 802.11b/g/n/ac</li> <li>• Ethernet : RJ45 (~1Gbps)</li> <li>• LTE: Optional</li> </ul> </li> </ul>
	<b>Port Interface</b>	<ul style="list-style-type: none"> <li>• Serial : RS485 x3</li> <li>• Ethernet : RJ45 x1</li> <li>• Wi-Fi / LTE (Optional) : Intenna / Antenna</li> </ul>
	<b>Protocol</b>	Modbus RTU/TCP, HTTP(S), MQTT, DLMS/COSEM, SNMP, proprietary inverter protocols
<b>MAIN FEATURES</b>	<b>Interaction</b>	LED
	<b>Data Backup</b>	1 month
	<b>Firmware Upgrade</b>	FOTA / USB
	<b>Data Security</b>	SSL, PKI, HSM
	<b>Warranty</b>	1 year
<b>CERTIFICATION</b>	<b>FCC</b>	210200079SEL-EMC2 (Class A)
	<b>KC</b>	R-R-EdT-SGWBWB
	<b>UL</b>	5022322

# Data Acquisition

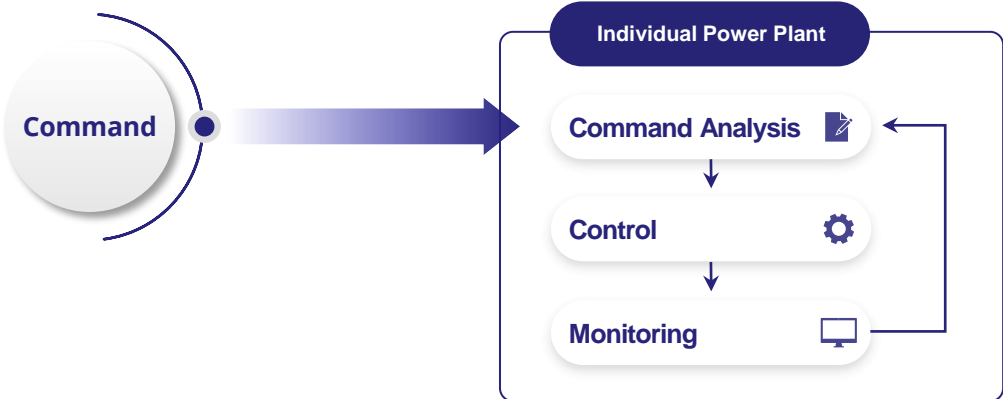
- In-depth and comprehensive knowledge and experience on data acquisition
- High-end RTU to enable robust data logging and control



# Power Plant, PCS Control

## Delivery of control command from central/local level

- Output control of power plant based on bidding result
- ESS charging/discharging
- Emergent control by embedded rules at local level



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For more information about our hardware and data platform, Please contact us via email [esolution@encoredtech.com](mailto:esolution@encoredtech.com)

