

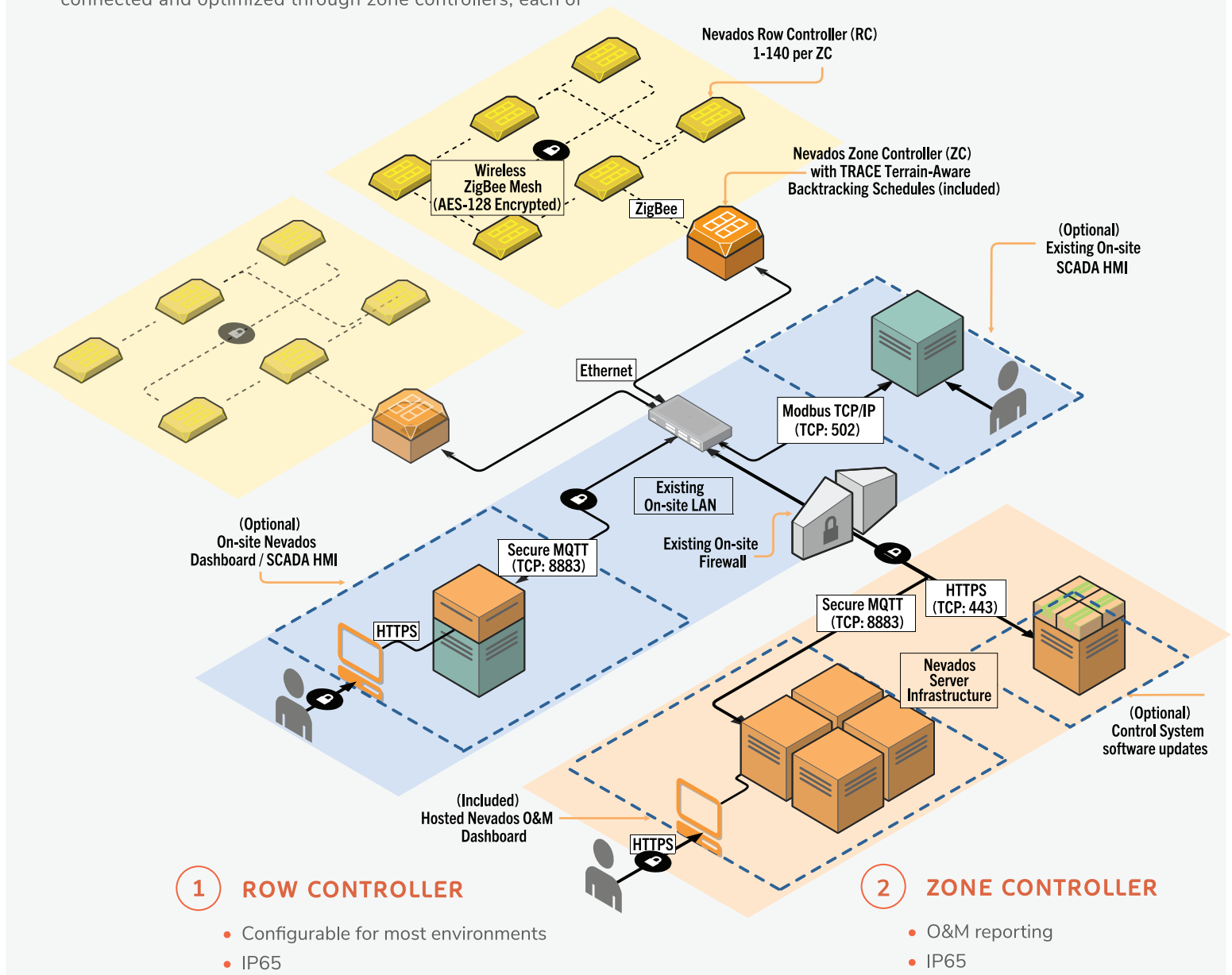


SOLAR TRACKER CONTROLS

FOR ALL TERRAIN ENVIRONMENTS

The Nevados control system is designed to optimize power generation from your project site and account for variable shadow fall on flat, sloped, and rolling terrain. Each row is monitored by a single row controller. Row controllers are connected and optimized through zone controllers, each of

which can manage up to 140 row controllers. The system provides detailed operational information from each row, which can be utilized to increase row-to-row efficiency and maximize output.



MODULES

ROW
CONTROLLER

ZONE
CONTROLLER

WEATHER
STATION

DASHBOARD

COMMUNICATIONS	ROW CONTROLLER	ZONE CONTROLLER
WIRELESS	<ul style="list-style-type: none"> High-powered ZigBee (with external antenna) between RC and ZC 	<ul style="list-style-type: none"> ZigBee communication to manage RC
WIRED	<ul style="list-style-type: none"> Optional RS 485 communication link 	<ul style="list-style-type: none"> Manage with SCADA over Modbus Reporting to cloud-hosted monitoring & control dashboard Cat5/6 between ZC and SCADA
ENCLOSURE		
SIZE (LxWxD)	<ul style="list-style-type: none"> 10" x 12" x 3.5" – max external dimension of enclosure (not including mounting tabs) 	<ul style="list-style-type: none"> 13" x 15" x 5"
DESIGN	<ul style="list-style-type: none"> IP 65, Plastic (injection molded), Membrane vent (Amphenol BJ001, Gore Vent, or similar) 	<ul style="list-style-type: none"> Reinforced polyester compression molded fiberglass
SERVICE/ACCESS	<ul style="list-style-type: none"> Access battery field serviceable 	
MOUNTING	<ul style="list-style-type: none"> Direct mount RC to torque tube solar module Mount aux module to torque tube using standard module clips 	<ul style="list-style-type: none"> IP65 rated Mounted near or on inverter skid, or other ethernet and power access point.
POWER	<ul style="list-style-type: none"> Auxiliary solar module, 40W and 30V, approx 645mm x 345mm x 25mm 	<ul style="list-style-type: none"> 120V AC wired to enclosure Optional 270V
BATTERY	<ul style="list-style-type: none"> 3-6Ah LiFEPO4 battery with optional cold weather package 	
INPUTS	<ul style="list-style-type: none"> RS485 port w. Weather cap E-Stop Status LED (optional) Auxiliary module power cables 	<ul style="list-style-type: none"> 120V AC Ethernet
OUTPUTS	<ul style="list-style-type: none"> Motor Cable with screw-on connector to motor External ZigBee Co-ax connector for antenna wire 	<ul style="list-style-type: none"> External ZigBee co-ax connector for antenna wire
BOARD COMPONENTS	<ul style="list-style-type: none"> XBee RR PTC (automotive style fuse) Motor over-current monitoring and protection 16bit Microcontroller @ >8MHz Accelerometer 	<ul style="list-style-type: none"> Xbee S2C, S2C Pro or 3°