

# CONSTELLATION SERIES RFID

BUSINESS SYSTEMS

INDUSTRIAL CONTROL  
INTERFACE

## The Constellation Series

A family of unique automation products which allow for easy modular integration of RFID tracking technology. Each of the six unique Constellation series devices are "drop-in - ready to integrate" RFID products. The series is adaptable to 900MHz, 13.56MHz or 2.4Ghz. With built in capabilities, certain devices will also drive print and apply equipment, printers, labelers, conveyors, diverters and other typical peripheral equipment.

For applications in a Manufacturing, Health Science/Pharmaceutical, Supply Chain, etc. environment, the Constellation Series addresses three primary business needs:

- ★ **Seamless Integration of RFID**
- ★ **Interface with existing or required Business Systems (i.e SAP, Manhattan Associates, WMS, MRP, etc.)**
- ★ **Ability to communicate and control industrial or manufacturing devices. (i.e. conveyors, diverters and sensors)**

Within each Constellation Series model, required technologies are combined to meet each specific application need. Each unit varies in capability to promote efficient and rapid RFID integration. Depending on model, this may include, RFID reader and antenna, industrial PC running business software interface, PLC/Industrial Control interface, internal 24V DC power supply, and wireless/ethernet connectivity ports.

Constellation Series Products provide the most cost effective solutions suited to your specific needs, products include:

**HERCULES 2400:** MAIN HOST: Highly versatile, "self-contained reader station." The combined industrial PC, Touch-screen and RFID reader is designed to accept up to 4 antennas, provide a flexible user interface and integrated control I/O for lights, conveyors, etc., all in one NEMA enclosure.

**OMEGA 2200:** HOST with REMOTE ACCESS: Remotely managed- no operator interaction. Capabilities identical to the Hercules 2400, except User Control via RealVNC or other remote access applications like pcAnywhere™ or Remotely Anywhere.

**ORION 1600:** 1st in the Client Series: Remotely hosted- no operator interaction. In addition to the on-board RFID reader (up to 4 antennas), it also provides integrated control I/O for diverters, alarms, etc.

**POLARIS 1400:** 2nd in Client Series: Remotely hosted- no operator interaction. Similar to ORION 1600, but has no integrated I/O control. Onboard RFID reader (up to 4 antennas).

**DORADO 400:** 3rd in Client Series  
Similar in function to ORION 1600, but can only accommodate 1 RFID antenna. Remotely hosted and provides integrated control I/O for print & apply label systems, sensors, etc.

**GEMINI 200:** Item level RFID reader (Single Channel) designed for individual antenna read and desktop tag initialization.



# CHOOSING YOUR DEVICE

## CONSTELLATION SERIES

HERCULES 2400  
 OMEGA 2200  
 ORION 1600  
 POLARIS 1400  
 DORADO 400  
 GEMINI 200

<b>Operating Frequency</b> (900MHz standard) Options Include 13.56 MHz AND 2.45 GHz	*	*	*	*	*	*
<b>PC (Mini "Brick")</b>	*	*				
<b>LCD Touchscreen Display</b>	*					
<b>RealVNC or other remote access</b>		*				
<b>Host/Client Configuration Interface</b> <b>GALAXY'S VortexXML™ protocol</b>	*	*				
<b>Integrated Digital I/O</b>	*	*	*		*	
<b>Power Supply</b>	24 Vdc @ 10Amp			24Vdc-5A	24Vdc-5A	external
<b>Size (inches)</b>	24x24x8	24x24x8	24x16x8	20x16x6	12x12x6	6x8x2
<b>Weight (lbs)</b>	85	75	40	35	25	5
<b>Onboard Communications:</b>						
<b>RS232</b>	*	*			*	*
<b>RS485/422</b>	*	*				
<b>USB</b>	*	*				
<b>10/100baseT</b>	*	*	*	*		
<b>Antenna Connections:</b>						
<b>Maximum up to 4</b>	*	*	*	*		
<b>Single Channel</b>					*	*
<b>Enclosure:</b>						
<b>NEMA Rated Painted Steel (standard)</b>	*	*	*	*	*	
<b>ABS Plastic (standard)</b>						*
(Options: NEMA Stainless Steel, Fiberglass, rugged wheel pull behind)						

OMEGA 2200



HERCULES 2400



ORION 1600



GEMINI 200

POLARIS 1400



DORADO 400

