Galileo

Video Wall Processor
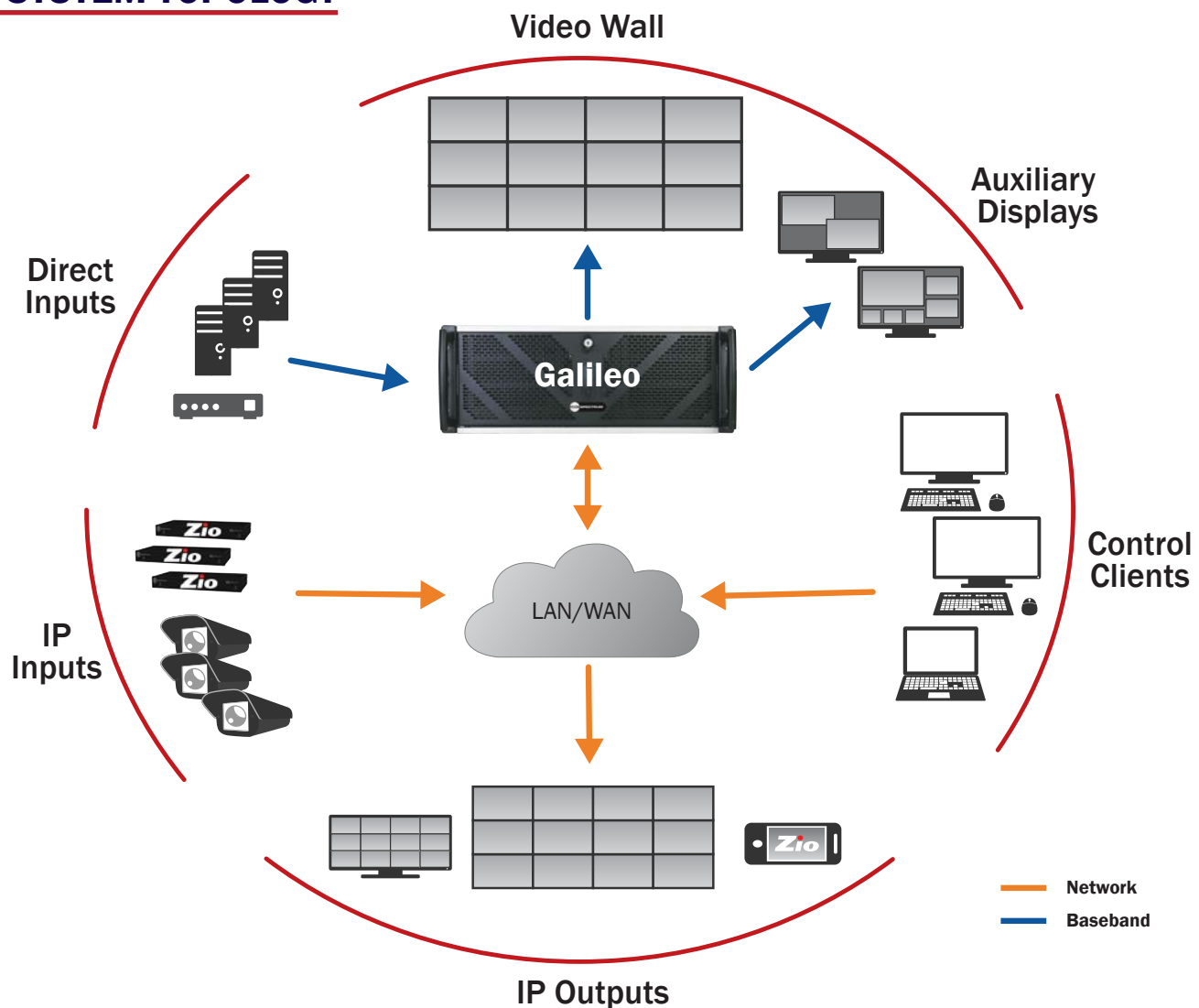
RGBSPECTRUM

Galileo

RGB Spectrum continues to push the boundaries on capabilities for control rooms, operation centers, and other mission critical venues with the highly configurable *Galileo* video wall processor and signal distribution system.

The flexible *Galileo* display processor supports analog, digital, web browser, and IP-based sources displayed in windows anywhere on the display surface. Outputs can be configured as video walls or as individual displays and fed as baseband or IP streams.

RGB Spectrum's Zio® AV-over-IP products are integrated directly into the *Galileo* display processor. Zio encoded-sources are automatically discovered and listed as *Galileo* sources. Additionally, *Galileo*-encoded output can be part of the Zio ecosystem and sent to a decoder, smart display or mobile phone.

Combining the flexibility of a PC architecture with real-time performance, the IP-enabled *Galileo* processor sets a new standard for video walls and signal distribution.

SYSTEM TOPOLOGY

Video Wall

Direct Inputs

Auxiliary Displays

Galileo

Control Clients

LAN/WAN

IP Inputs

IP Outputs

Network

Baseband

KEY FEATURES

REAL-TIME 24/7 PERFORMANCE

Optimized components allow the Galileo processor to deliver real-time throughput and superb image quality, unlike other PC-based systems that can drop frames or cause image tearing.

With a solid state drive and optional hot-swappable, redundant power supplies, the processor provides reliable, 24/7 operation.

MULTIPLE DISPLAY SURFACES

The Galileo processor allows the user to group outputs into multiple display surfaces or use an output as a multiviewer to mimic the main video wall. Layouts can apply to a specific display surface or all surfaces to allow fast recall of windows and routings.

Main Video Wall

IP Output Alternatives

Entire Video Wall

Wall Mimic on Single Display

Partial Wall or Single Window

IP STREAMING OUTPUTS

The Galileo processor offers both encoding and decoding of IP streams. The user can selectively stream the entire video wall, creating a true wall mimic, or any portion of the wall. In addition, baseband sources can be converted to IP streams even when not displayed on the video wall. This unique capability allows operators to push content to anyone, anywhere in the world.

SECURITY SYSTEM SUPPORT

RGB Spectrum's Galileo Display Processor offers Milestone integration with the simplicity of the XProtect® Smart Client and the power of a dedicated video wall. This integration allows third party systems such as alarms, access control, and GIS to be displayed alongside Milestone video in one consolidated, easy-to-manage view.

CONTROL AND COLLABORATION

The Galileo system provides several control options to simplify set-up and operation. A built-in web interface, accessible on any computer, tablet or mobile device, enables users to recall layouts and move/resize windows. No app is required.

Third-party devices can also provide system control. The Galileo processor's rich API allows operators to monitor remote alarms, create scripts to recall layouts, and control third-party equipment.

IP STREAMING INPUTS

IP video streams are decoded either directly by the Galileo processor or on a dedicated input card. The decoder input card enables hardware-accelerated H.264 decoding of video up to 4K resolution.

ENTERPRISE SECURITY

For mission-critical enterprise-level applications, enhanced security features protect the integrity of system data and resources. The optional Galileo Advanced software adds User Profile Management and Security Logging capabilities.

REMOTE DESKTOP CAPABILITY

The Galileo processor offers multicast remote desktop functionality. This enables any authorized client to view the display of another client or remote KVM host.

FLEXIBLE INPUT TYPES

Flexibility is one of the Galileo processor's key strengths. From legacy, analog equipment to today's 4K UHD sources, a modular input card structure allows you to select the input types you need.

SPECIFICATIONS

	GO 18	GO 18-A	GO 24
Physical			
Size (H x W x D)	6.5 x 17.3 x 18.2 in (4RU)	14.8 x 66.9 x 16.8 in (Tower)	6.5 x 17.3 x 18.2 inches (4RU)
	165 x 440 x 460 mm	376 x 1700 x 427 mm	165 x 440 x 460 mm
Weight	27 lbs / 12 kg	32 lbs / 14.5 kg	29 lbs / 13 kg
Power			
Power Supply	100-240 VAC; 50/60 Hz	100-240 VAC; 50/60 Hz	100-240 VAC; 50/60 Hz
	690 W single	625 W single	1000 W single
	Actual power consumption depends on specific configuration.		
Environmental			
Operating Temp	+50 to +95 °F (+10 to +35 °C)	+50 to +95 °F (+10 to +35 °C)	+50 to +95 °F (+10 to +35 °C)
Storage Temp	+14 to +140 °F (-10 to +60 °C)	+14 to +140 °F (-10 to +60 °C)	+14 to +140 °F (-10 to +60 °C)
Operating Humidity	10% to 80% non-condensing	10% to 80% non-condensing	10% to 80% non-condensing
Processor			
Memory	16 GB DDR4 2666 MHz	16 GB DDR4 2666 MHz	32 GB DDR4 3200 MHz
Hard Disk	256 GB SSD (No RAID option)	512 GB SSD (No RAID option)	256 GB SSD; RAID option
Control			
Network	1x Ethernet TCP/IP	1x Ethernet TCP/IP	1x Ethernet TCP/IP
	10/100/1000 Base-T	10/100/1000 Base-T	10/100/1000 Base-T
Input/Output			
Output Number	8 max	8 max	16 max
Inputs	DVI: up to 1920x1200 @ 60 Hz, 2560x1600 @ 30 Hz		
	HDMI & DisplayPort: up to 4096x2160 @ 60 Hz, up to 10-bit per component		
	SDI: up to 12G / 4096x2160 @ 60 Hz		
	S-Video: NTSC/PAL/SECAM		
	Composite: NTSC/PAL/SECAM		
	IP: up to 3840x2160 @ 60 Hz H.264		
Outputs	DVI: up to 2048x1152 @ 60 Hz, 2560x1600 @ 30 Hz		
	HDMI & DisplayPort: up to 4096x2160 @ 60 Hz		
	IP: up to 3840x2160 @ 60 Hz		
	Number of input and output channels depends on chassis size and customer configuration.		*Specifications subject to change.*

Models GO 18 / 24

Front Panel

Rear Panel

SPECIFICATIONS

	GO 28	GO 28-RP	GO 40-A	GO 40-B
Physical				
Size (H x W x D)	7.0 x 19.0 x 21.5 in (4RU)	7.0 x 19.0 x 21.5 in (4RU)	7.0 x 17.2 x 29.0 in (4RU)	6.9 x 17.1 x 26 in (4RU)
	177 x 483 x 546 mm	177 x 483 x 546 mm	178 x 437 x 737 mm	175 x 434 x 660 mm
	40 lbs / 18 kg	40 lbs / 18 kg	65 lbs / 29.7 kg	77 lbs / 35 kg
Power				
Power Supply	100-240 VAC; 50/60 Hz	100-240 VAC; 50/60 Hz	115-230 VAC; 50/60 Hz	115-230 VAC; 50/60 Hz
	850 W single	1200 W	2000 W	2000 W
		1+1 redundant, hot swappable	2+2 redundant, hot swappable	1+1 dual redundant
	Actual power consumption depends on specific configuration.			
Environmental				
Operating Temp	+32 to +104 °F (0 to +40 °C)	+32 to +104 °F (0 to +40 °C)	+50 to +95 °F (+10 to +35 °C)	+32 to +85 °F (0 to +30 °C)
Storage Temp	-4 to +176 °F (-20 to +80 °C)	-4 to +176 °F (-20 to +80 °C)	-4 to +140 °F (-20 to +60 °C)	-4 to +140 °F (-20 to +60 °C)
Operating Humidity	20% to 80% non-condensing	20% to 80% non-condensing	9% to 90% non-condensing	< 95% non-condensing
Processor				
Memory	32 GB DDR4 2666 MHz	32 GB DDR4 2666 MHz	128 GB DDR4 3200 MHz	16 x 8 GB DDR4 3200 MHz
Hard Disk	240 GB SSD; RAID option	240 GB SSD; RAID option	1 TB NVMe SSD; RAID option	2 x 480 GB SATA3; RAID option
Control				
Network	2x Ethernet TCP/IP	2x Ethernet TCP/IP	2x Ethernet TCP/IP	2x Ethernet TCP/IP
	10/100/1000 Base-T	10/100/1000 Base-T	1000/10000 Base-T	1000/10000 Base-T
Input/Output				
Output Number	16 max	16 max	16 max	16 max
Inputs	DVI: up to 1920x1200 @ 60 Hz, 2560x1600 @ 30 Hz			
	HDMI & DisplayPort: up to 4096x2160 @ 60 Hz, up to 10-bit per component			
	SDI: up to 12G / 4096x2160 @ 60 Hz			
	S-Video: NTSC/PAL/SECAM			
	Composite: NTSC/PAL/SECAM			
	IP: up to 3840x2160 @ 60 Hz H.264			
Outputs	DVI: up to 2048x1152 @ 60 Hz, 2560x1600 @ 30 Hz			
	HDMI & DisplayPort: up to 4096x2160 @ 60 Hz			
	IP: up to 3840x2160 @ 60 Hz			
	Number of input and output channels depends on chassis size and customer configuration.		*Specifications subject to change.*	

Model GO 28 / 28-RP

Model GO 40-A

SPECIFICATIONS

	GO 44	GO 56-A	GO 80
Physical			
Size (H x W x D)	6.9 x 19.0 x 19.7 in (4RU) 175 x 482 x 500 mm	7.0 x 17.2 x 32.1 in (4RU) 178 x 437 x 815 mm	7.0 x 17.2 x 32.1 in (4RU) 178 x 437 x 815 mm
Weight	55 lbs / 25 kg	65 lbs / 29.7 kg	65 lbs / 29.7 kg
Power			
Power Supply	115-230 VAC; 50/60 Hz 800 W 1+1 redundant, hot swappable	110-220 VAC; 60 Hz 2000 W 2+2 redundant, hot swappable	110-220 VAC; 60 Hz 2000 W 2+2 redundant, hot swappable
	Actual power consumption depends on specific configuration.		
Environmental			
Operating Temp	+32 to +95 °F (0 to +35 °C)	+50 to +95 °F (+10 to +35 °C)	+50 to +95 °F (+10 to +35 °C)
Storage Temp	-4 to +158 °F (-20 to +70 °C)	-4 to +140 °F (-20 to +60 °C)	-4 to +140 °F (-20 to +60 °C)
Operating Humidity	5% to 90% non-condensing	8% to 90% non-condensing	8% to 90% non-condensing
Processor			
Memory	32 GB DDR4 3200 MHz	96 GB DDR4 2933 MHz	96 GB DDR4 2933 MHz
Hard Disk	2x 240 GB SSD; RAID option	1TB NVMe SSD; RAID option	1 TB NVMe SSD; RAID option
Control			
Network	2x Ethernet TCP/IP 10/100/1000 Base-T	2x Ethernet TCP/IP 1000/10000 Base-T	2x Ethernet TCP/IP 1000/10000 Base-T
Input/Output			
Output Number	24 max	16 max	16 max
Inputs	DVI: up to 1920x1200 @ 60 Hz, 2560x1600 @ 30 Hz HDMI & DisplayPort: up to 4096x2160 @ 60 Hz, up to 10-bit per component SDI: up to 12G / 4096x2160 @ 60 Hz S-Video: NTSC/PAL/SECAM Composite: NTSC/PAL/SECAM IP: up to 3840x2160 @ 60 Hz H.264		
Outputs	DVI: up to 2048x1152 @ 60 Hz, 2560x1600 @ 30 Hz HDMI & DisplayPort: up to 4096x2160 @ 60 Hz IP: up to 3840x2160 @ 60 Hz		
	Number of input and output channels depends on chassis size and customer configuration.		*Specifications subject to change.*

Model GO 44

Model GO 56/80