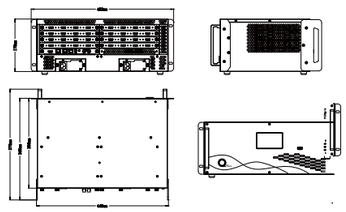
Model		Q16pro Gen2 1U	Q16pro Gen2 2U	Q16pro Gen2 4U	Q16pro Gen2 8U	Q16pro Gen2 14U (preliminary)
Specification		1U	2U	4U	8U	14U
Input Slots		2	3	4	10	20
Output Slots		1	2	4	10	20
Shared Slots		No support	No support	Output slot No.1~No.4	Output slot No.1~No.8	Output slot No.1~No.18
Physical	Net Weight	3.8kg	6.0kg	8.5kg	15.0kg	20.0kg
	Package Weight	5.5kg	9.7kg	12kg	20.0kg	25.0kg
	Net Dimension	490x363.2x55mm	483.4x377x89mm	483.4mm x 446mm x 178mm	488×370×355.6mm	485×310×560mm
	Package Dimension	530x440x120mm	630x585x250mm	630mm x 585mm x 250mm	665×525×495mm	665×525×495mm
	Input Connectors	Optional	DVI	4×DVI-I（Compatible HDMI/DVI/VGA/YPbPr/CVBS）	DP 1.2 | HDMI 2.0	2×DP | 2×HDMI-A
			SDI (SD/HD/3G)	8×BNC（4 In | 4 Loop）	H.265	1×USB | 1×RJ45
			HDMI 1.3	4×HDMI-A	4K30	2×DP | 2×HDMI-A
			HDBaseT	4×RJ45		
	Output Connectors	Optional	DP1.2	2×DP	H.265	1×USB|1×RJ45
			DVI	4×DVI-I（Compatible VGA）	HDMI 2.0	2×HDMI-A
			HDMI 1.3	4×HDMI-A	SDI (SD/HD/3G)	4×BNC
			DANTE	2×HDMI-A|1×RJ45|1×RJ45(backup)	AUDIO	4×3.5mm Audio
			STREAMING	1×RJ45|1×USB3.0|1×Type C	HDBaseT	4×RJ45
	Communication Connectors	Optional	PVW	1×HDMI-A	LAN	1×RJ45
			Genlock	2 × BNC (1 In | 1 Loop)	H.265	1×RJ45
Connectors	Input Resolutions	Select from below or configure customized				
		HDMI 1.3|DVI				
		SMPTE	720x480p@60 | 720x576p@50 | 1280x720p@23.98/24/25/29.97/30/50/59.94/60 | 1920x1080i@50/59.94/60 | 1920x1080p@24/25/29.97/30/50/59.94/60 | Custom				
		VESA	1024x768p@60/75/85 | 1280x800p@60 | 1280x1024p@60/75/85 | 1360x768p@60 | 1366x768p@60 | 1440x900p@60 | 1400x1050p@60 | 1680x1050p@60 |1920x1080p@60 |1920x1200p@60 | 1536x960@60 | 1840x960@60 | 1920x1152@60 | 1872x1152@60 | Custom				
		HDMI 2.0 | DP 1.2				
		SMPTE	480i@60 | 720x480p@60 | 576i@50 | 720x576p@50 | 1280x720p@50/59.94/60 | 1920x1080p@23.98/24/25/29.97/30/50/59.94/60 | 3840x1080p@30/60 | 3840x2160p@25/30/50/60 | Custom				
		VESA	640x480p@60/75/85 | 800x600p@60/75/85 | 1024x768p@60/75/85 | 1280x800p@60 | 1280x1024p@60/75/85 | 1360x768p@60 | 1366x768p@60 | 1440x900p@60 | 1400x1050p@60 | 1366x768p@60 | 1680x1050p@60 | 1920x1080p@60 | 1920x1200p@60 | 2048x1152p@60 | 2560x1440p@60 | 2560x1600p@60 | 3840x2160p@25/30/50/60 | Custom				
		3G SDI				
		SMPTE	480i@60 | 720x480p@60 | 576i@50 | 1280x720p@50/59.94/60 | 1920x1080i@50/59.94/60 | 1920x1080p@23.98/24/25/29.97/30/50/59.94/60				
		VESA	480i@60 | 720x480p@60 | 576i@50 | 1280x720p@50/59.94/60 | 1920x1080i@50/59.94/60 | 1920x1080p@23.98/24/25/29.97/30/50/59.94/60 | 1920x1080p@60				
		H.265				
		SMPTE	720p@30/50/60 | 1080p@30/50/60 | 2160p@30/60				
		4K30				
		SMPTE	480i@60 | 720x480p@60 | 576i@50 | 720x576p@50 | 1280x720p@50/59.94/60 | 1920x1080p@23.98/24/25/29.97/30/50/59.94/60 | 3840x1080p@30/60 | 3840x2160p@25/30 | Custom				
		VESA	640x480p@60/75/85| 800x600p@60/75/85| 1024x768p@60/75/85| 1280x800p@60| 1280x1024p@60/75/85| 1360x768p@60| 1366x768p@60| 1440x900p@60| 1400x1050p@60| 1366x768p@60| 1680x1050p@60| 1920x1080p@60| 1920x1200p@60|2048x1152p@60| 2560x1440p@60| 2560x1600p@60| 3840x2160p@25/30				
		HDBaseT				
		SMPTE	720p@30/50/60 | 1080p@30/50/60 2160p@30/60				
		VESA	800x600@60| 1024x768@60| 1280x768@60| 1280x1024@60| 1600x1200@60|1920x1080@60				
	Output Resolutions	Select from below or configure customized				
		HDMI 1.3|DVI				
		SMPTE/VESA	1024x768p@60 | 1280x720p@50/59.94/60 | 1280x800p@60 | 1280x1024p@60| 1360x768p@60 | 1366x768p@60 | 1400x1050p@60 | 1440x900p@60 | 1600x1200p@60 | 1680x1050p@60 | 1920x1080p@23.98/24/25/29.97/30/50/59.94/60 | 1920x1200p@60 | 2560x816p@60 | 2048x1152p@60 | 1536x960p@60 | 1840x960p@60 | 1920x1152p@60 | 1920x1200p@60 | 1872x1152p@60 | 2048x1152p@60 |1536x1536p@60 | 2048x1080p@60 |2304x1080p@60 | 2560x960p@60 | 3840x640p@60 | 3840x1080p@30 | 640x3840p@30/50 | 512x3840p@50 | 1152x1536p@60 | Custom				
		HDMI 2.0 | DP 1.2				
		SMPTE/VESA	1024x768p@60 | 1280x720p@50/59.94/60 | 1280x800p@60 | 1280x1024p@60| 1360x768p@60 | 1400x1050p@60 | 1440x900p@60 | 1600x1200p@60 | 1680x1050p@60 | 1920x1080p@23.98/24/25/29.97/30/50/59.94/60 | 1920x1200p@60 | 2560x816p@60 | 2048x1152p@60 | 2560x1440p@60 | 2560x1600p@60 | 3840x1080p@60 | 3840x2160p@50/59.94/60 | 4096x2160p@25/50/59.94/60 | 1024x768@60 | 1280x720@50/59.94/60 | 1280x800@60 | 1280x1024@60 | 1360x768@60 | 1400x1050@60 | 1440x900@60 | 1600x1200@60 | 1680x1050@60 | 1920x1080@23.98/24/25/29.97/30/50/59.94/60 | 1920x1200@60 | 2560x816@60 | 2048x1152@60 | 2560x1440@60 | 2560x 1600@60 | 3840x1080@60 | 3840x2160@50/59.94/60 | 4096x2160@25/50/59.94/60 | Custom				
		3G SDI				
		SMPTE	1280x720p@50/59.94/60 | 1920x1080p@23.98/24/25/29.97/30/50/59.94/60				
		HDBaseT				
		SMPTE	720p@30/50/60 | 1080p@30/50/60 | 2160p@30/60				
		VESA	800x600@60| 1024x768@60| 1280x768@60| 1280x1024@60| 1600x1200@60|1920x1080@60				
		Streaming					
		SMPTE	720p@50/60 | 1080p@23.98/24.97/50/59.94/60				
		VESA	1024x768@60 | 1280x720@50/60 | 1280x768@60 | 1280x1024@60 | 1360x768@60 | 1920x1080@60				
	Supported Standard	SDI	3G	H.265	H.265	DVI	DVI-1.0
		HDMI	2.0	HDBaseT	1.0	DP	1.2
Power	Input Voltage	AC 100V-240V, 50/60Hz (2U and above support dual PSU)					
Working Environment	Temperature	0°C～45°C					
	Humidity	15%~85%, RH					
Storage Environment	Temperature	0°C～55°C					
	Humidity	5%~85%, RH					

Order Codes

Product Code	Item
710-1002-10-0	Q16pro Gen2 1U
710-1002-06-1	Q16pro Gen2 2U (Communication Module with PVW Included)
710-1002-01-0	Q16pro Gen2 4U (Communication Module with PVW Included)
710-1002-07-1	Q16pro Gen2 8U (Communication Module Included)
710-1002-08-0	Q16pro Gen2 14U (preliminary)
790-1002-01-0	Q Series Quad HDMI 1.3 Input Module
790-1002-02-0	Q Series Single IP Input Module (preliminary)
790-1002-03-0	Q Series Quad HDMI 2.0 & DP 1.2 Input Module
790-1002-04-0	Q Series Quad 3G SDI (LOOP) Input Module
790-1002-05-0	Q Series Quad DVI Input Module
790-1002-07-0	Q Series Dual HDMI 1.3 & Dual DVI Input Module (preliminary)
790-1002-08-0	Q Series Quad HDBaseT Input Module (preliminary)
790-1002-09-0	Q Series Dual 4K30 Input Module (preliminary)

Product Code	Item
790-1002-06-0	Q Series Quad Input & Quad Output Analog Audio Module (preliminary)
790-1002-21-0	Q Series Quad HDMI 1.3 Output Module
790-1002-22-0	Q Series Communication Module with PVW
790-1002-23-0	Q Series Dual HDMI 2.0 Output Module
790-1002-25-0	Q Series Quad 3G SDI Output Module
790-1002-26-0	Q Series Quad DVI Output Module
790-1002-27-0	Q Series single IP Output Module (preliminary)
790-1002-29-0	Q Series Streaming Output Module (preliminary)
790-1002-30-0	Q Series Dual HDMI 1.3 Output Module with Dante
790-1002-48-0	Q Series Quad HDBaseT Output Module (preliminary)
950-0016-00-0	Q Series 300W Redundant Power Module (for 2U)
950-0040-01-0	Q Series 300W Redundant Power Module (for 4U)
950-0017-00-0	Q Series 300W Redundant Power Module (for 8U)

Dimensions



HDMI HDCP™

Proudly designed and manufactured in Xiamen Hi Technology Zone, China
WEB: www.rgblink.com EMAIL: sales@rgblink.com PHONE: +86 592 5771197

RGBlink®

www.rgblink.com

Q16pro Gen2

Multi-Window Splicing Processor
for LCD & LED Videowall

RGBlink®

Q16pro Gen2 is a high-performance video image processing system and high-performance video splicing server using pure hardware and leading-edge FPGA processing architecture. Offering a range of input and output signals via a card-based structure, and supporting hot swap of modules, and options including redundant power supplies, Q16pro Gen2 is a stable high-performance platform that can be deployed in varied applications including corporate and visual messaging as well in retail and digital signage applications The Q16pro Gen2 models allow connection of 4K video sources as well as output to 4K, with outputs offering multi-screen and multi-layer capabilities. A host of features are built in to Q16pro Gen2, including EDID management, 3D image processing, and highly configurable OSD features at high-definition.

Multi-layer and Multi-window

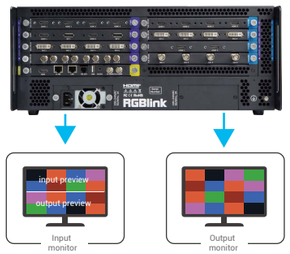
Q16pro Gen2 offers up to 8 2K windows or 2 4K windows per output slot. Layer resources able to be freely used across any of the outputs within a slot for maximum availability and efficiency, including combinations of both 2K and 4K layer windows. Q16pro layering allows multi-window applications for large scale and spanning multiple display outputs.

Frame sizes for every scale

Q16pro Gen2 models range from the compact 1U through to 14U with up to 80 inputs and 80 outputs with common modules across the range. Q16pro Gen2 is truly scalable for even the largest applications .

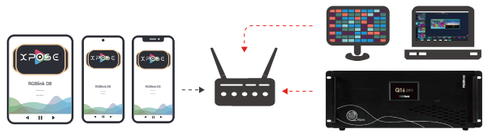
Input and output preview

Equipped with 2 high-definition multi-screen monitoring output interfaces, it can monitor 16 input or 16 output at the same time. Among them, 16 input source preview supports 4/9/16 screen division.



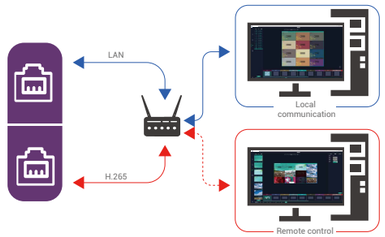
Take control

Configure and control Q16pro Gen2 devices from the acclaimed RGBlink XPOSE apps for laptop/desktop and mobile devices.



Dual network communication

Supports dual network communication: it has 1 local communication network port and 1 remote control port. In addition to remote control, the remote control port also has H.265 media remote control and monitoring functions.



OSD dynamic titles

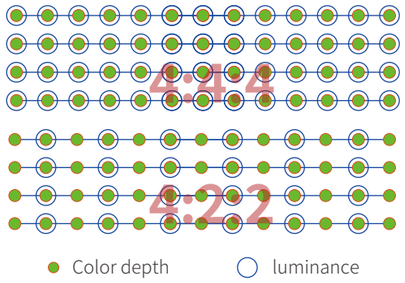
Customised text in almost any format can be overlayed on output displays. The facility supports static and dynamic arrangements including scrolling messaging.

3D stitching

Scale and deliver 3D signals for 120Hz interpolated signals with internal frame-lock synchronization. Segmentation and fusion are completely seamless. Single key switching is available to transition between 2D and 3D on demand.

Signal processing capability

The entire chassis input output and internal transmission are all 60 frames of RGB 4:4:4 signals. The signal supports 12bit processing, and the transmission rate of each channel can reach 5.9Gbps.

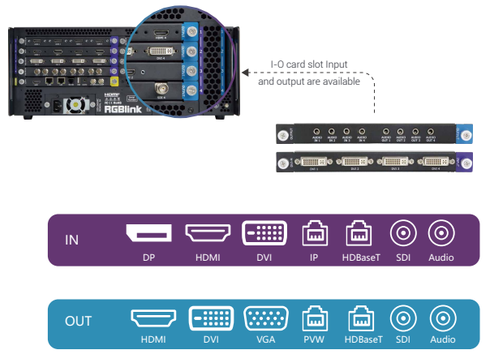


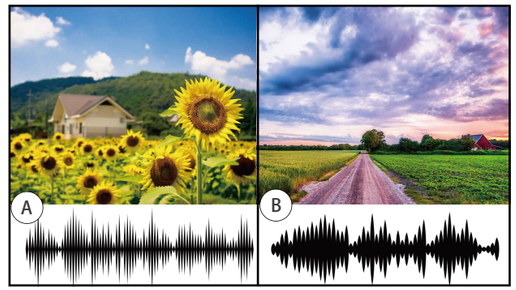
High-performance lossless 4K processing

Q16pro Gen2 not only supports HDMI 2.0 and DisplayPort 1.2 4K@60 signals and is engineered end-to-end to maintain and enhance fidelity with full 4:4:4 maintained throughout. Utilizing advanced processing engine developed RGBlink.

Modular hybrid modules

The processor offers a range of input and output modules, with signals able to be mixed-and-matched to meet requirement without in incurring overhead. Modules are easily user-fit lowering TCO and simplifying operations of Q16pro based installations.



Configurable audio delivery

Both embedded and external/insert audio sources may be embedded to any output as well as be switched a part of video presets.