

# QUANTUMRED

Vision, beyond the limits.



QuantumRed

Separated IP PoE Interface Board

## Accuracy

Accurate temperature  
Measurement and  
High quality imaging

## Expandability

Supports various video  
Formats for multiple  
applications

## Efficiency

Low cost, space free,  
comfortable,  
easy installation

It can be used as an IP monitoring device in conjunction combined with HanwhaSystems QuantumRed module.

It can be used as a camera product by mounting it on an external housing the user wants.

It supports the ONVIF standard, making it easy to add thermal imaging cameras to existing CCTV systems.

It supports PoE, so no extra power work is required.

## Key Features

- QuantumRed(QR, QRT100, VR) connectivity Board.
- Thermal imaging module control through Web-browse
- Support H.264, H.265, MJPEG streaming
- ONVIF/Zero Configuration support
- Operates in -10°C ~ +55°C environment
- DC12V or PoE powered operation

# QuantumRed Separated IP PoE Interface Board Technical Specifications

## Video

Resolution	640x480, 320x240 for QuantumRed QR/QRT100/VR
Streaming	Simultaneously H.265, H.264 & MJPEG (Multi Streaming)
Bitrate Control	CBR/VBR
Frame Rate	30Hz / 60Hz
Pseudo Color	Grey, Jet, Plasma

## Network

Ethernet	10/100 Based-T, Auto MDI/MDIX	
Protocol	TCP, UDP, IP, DNS, ICMP, ARP, IPv4, IPv6, HTTP(S), DHCP, DDNS, NTP, UPnP, Syslog, Bonjour	
SDK	RTP/RTSP, Genetec Protocol, Onvif	
RTC	Built in with Super Capacitor	
Security	Algorithm	MD5 / HTTP(S) Digest / SHA256 / WS-Security / TLS
	Functions	Session Timeout / Account Locking / Remote Management iptables (firewall)

## Operational

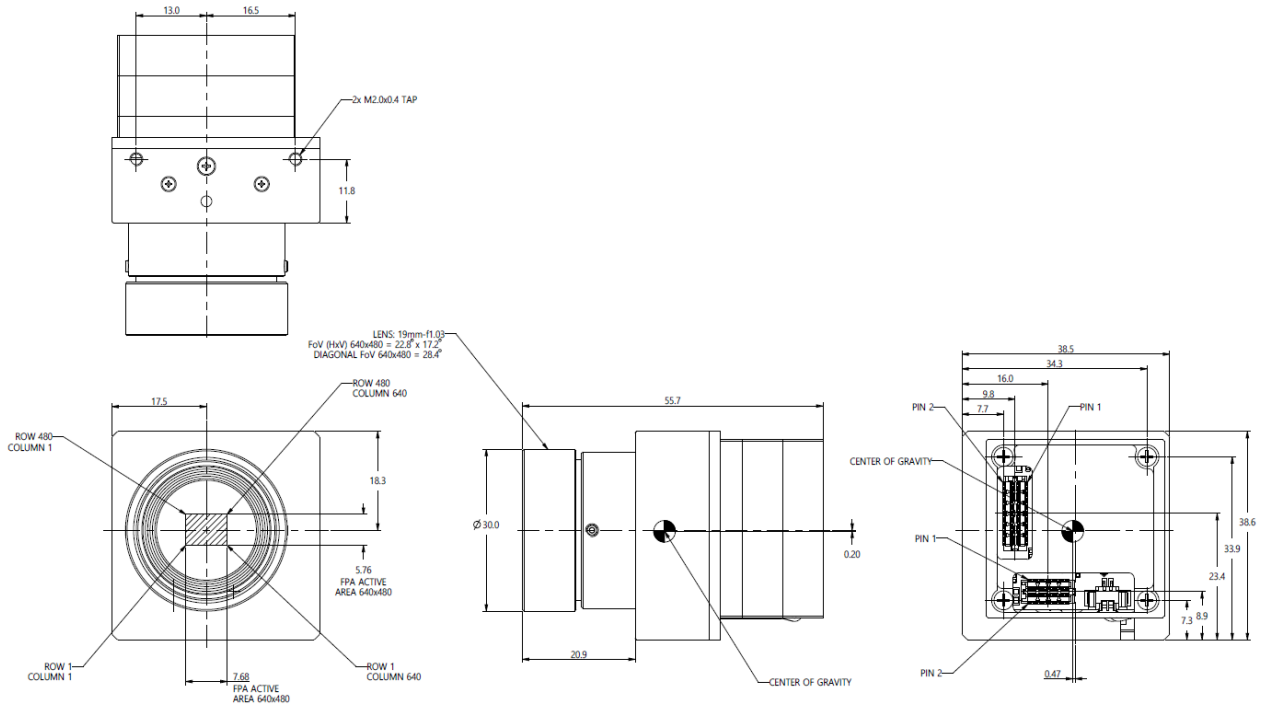
Web Viewer	MS Edge / Chrome modern browser ( HTML5 Video Streaming without ActiveX Plug-in )	
Audio	Bi-Directional Audio	Two way, full duplex
	Compression Type	G.711 (8kHz)
	Line Input	Line level input. Nominal input level is 1Vrms.
	Line Output	Line level output. Nominal output level is 1Vrms.
External I/O	Digital Input / Output	1ch / 1ch
	Factory Default Button	Restore to default setting (Network, Password and etc.)
	RS232	Console & Two RS232 TTL Level
	SD slot	SD / Micro SD Card Interface

## Environmental & Electrical

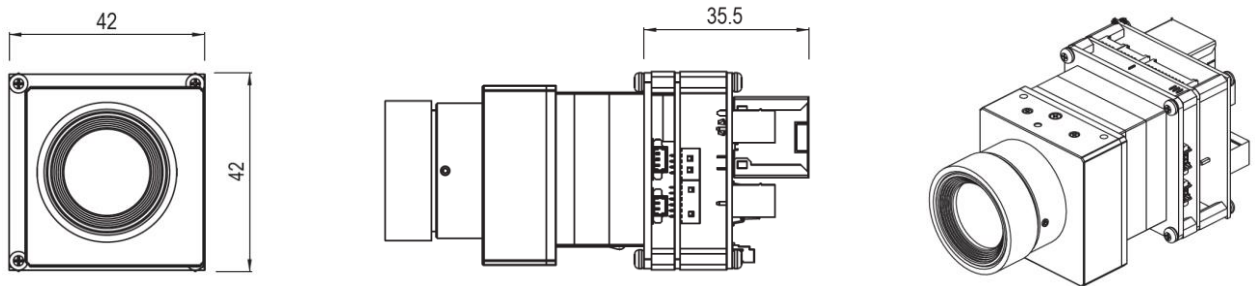
Operating Temp.	-10°C ~ 55°C
Storage Temp.	-40°C ~ +85°C
Power	DC12V 1A / PoE(IEEE 802.3af, Class3)
Dimension(IP Section only)	main : 105mm(W)x60mm(H) / interface : 30mm(W)x30mm(H)

# QuantumRed Assembled IP PoE Interface Board Dimensions

## QuantumRed VR(19mm lens) Base Module Dimension (unit : mm)



## DC Interface Type Dimension (unit : mm)



## PoE Interface Type Dimension (unit : mm)

