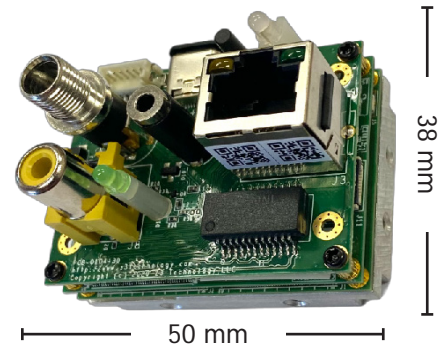# Z³ Technology®

Q603-10
H.265 Visible or Thermal Camera Encoder

- HDMI, LVDS or Composite Input
- NDAA and TAA Compliant Encoder
- Low Latency Streaming and Low Power
- Send Camera Controls over IP

The Q603-10 offers a small form factor single camera H.265 or H.264 encoder with flexibility to support either visible or thermal cameras. The encoder supports HD and 4K cameras with full compatibly to Sony's FCB 4K and HD camera line. Additional compatible cameras include KT&C and Tamron visible cameras, as well as Flir Boson®, Tau2® and DRS Tenum®. The encoder can be controlled through the web user interface, HTTPS API, Serial or ONVIF.

38 mm

50 mm

ONVIF® | S T

Technical

Visible Compatible Cameras	Sony FCB-EW9500H, FCB-ER8530, FCB-EV9520L, FCB-EV9500L, FCB-EV7520(A), KT&C*, and Tamron
Thermal Compatible Cameras	Flir Boson® Tau2® DRS Tenum®, Tamarisk® and Composite
Video Codecs	H.265, H.264, MJPEG encode
Encoding Resolutions	4Kp30, 1080p (up to 60fps), 720p, NTSC/PAL, VGA, CIF and QVGA
Audio Interfaces	Embedded from HDMI
Audio Codecs	HE-AAC, HEv2-AAC, AAC-LC
Interfaces	LVDS via KEL, HDMI via KEL, Micro HDMI input Composite Input via u.FL or RCA, HDMI Output, RS-232, RS-485
Output Formats	RTSP, UDP, RTP, TSRTP, RTMP, RTMPS, MP4, TS-File
Features	• Easy-to-Use HTTPs Web Gui with live video preview • Send VISCA and IR Camera Controls over IP with Web Gui or HTTPS API • Simultaneous Streaming and Recording to NFS or Micro-SD Card • ONVIF® Profile S and T Compliant • Embedded KLV Metadata Support Via Serial, MISB 0601 Compliant • High Precision Timestamps Across Multiple Streams, MISB 0604 Compliant • Multiline text Overlay via the Web Gui or the API • Logo or Image overlay via the API • NMEA GPS Overlay • Region of Interest: Configurable Field of View • Pelco D PTZ Position and ONVIF • Absolute PTZ Support and PTZ Tours • WiFi 802.11am dual band 4.33 Mbps with Q603-10W • Configurable Ethernet Speed 1000 Mbps and 100 Mbps

Specifications

Encoder Size	50 x 40 x 38 mm
Encoder Weight	43g (heat pipe is an additional 38g)
Power Supply Options	12V DC
Power Consumption	5.5W typical

ORDERING OPTIONS

OEM Production Set
- Q603-10 Encoder Board
- Q603-10W Wifi Encoder Board

Q603-RPS
OEM Starter Kit
- Q603-10 Encoder Boards
- Cables:
  KEL Ribbon cable
  Serial cable & Null Modem adapter
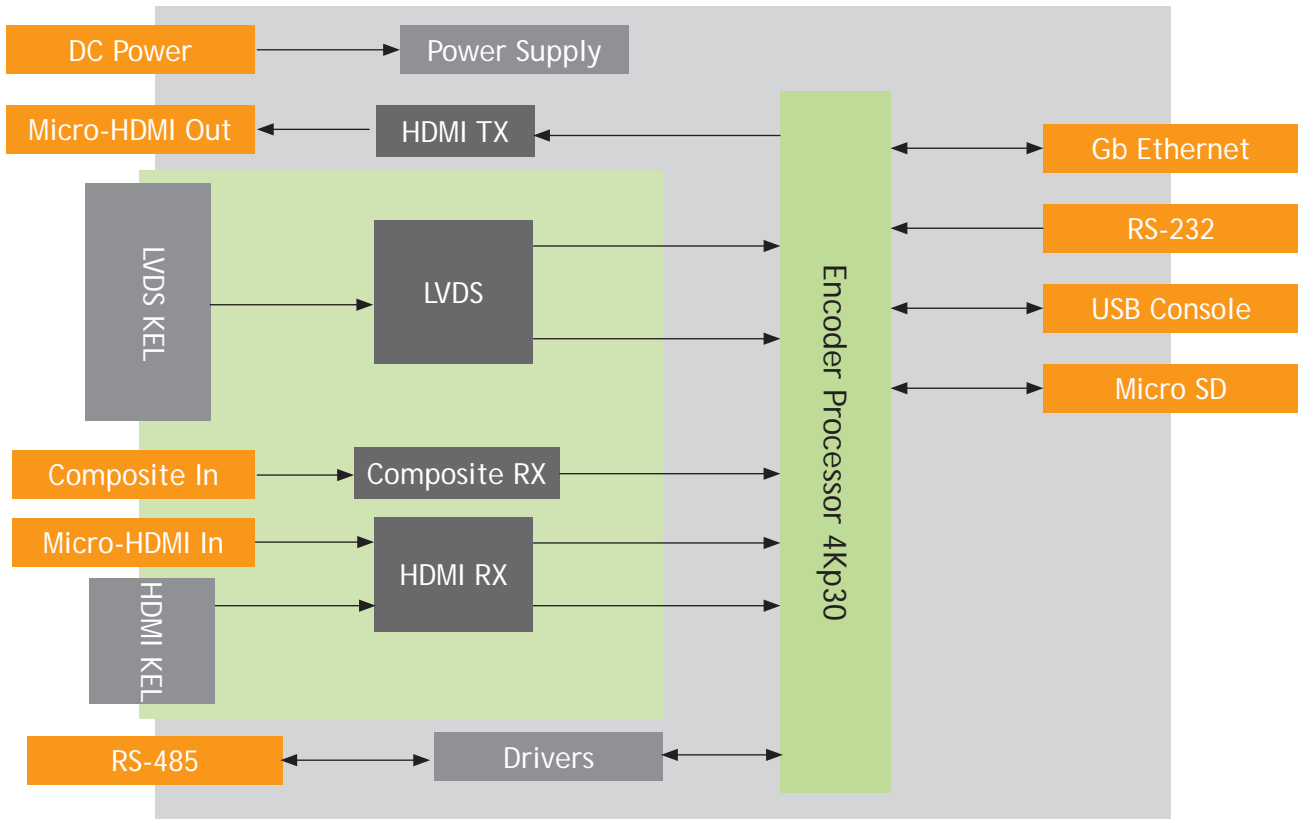- Power Supply
- SDK
- Documentation

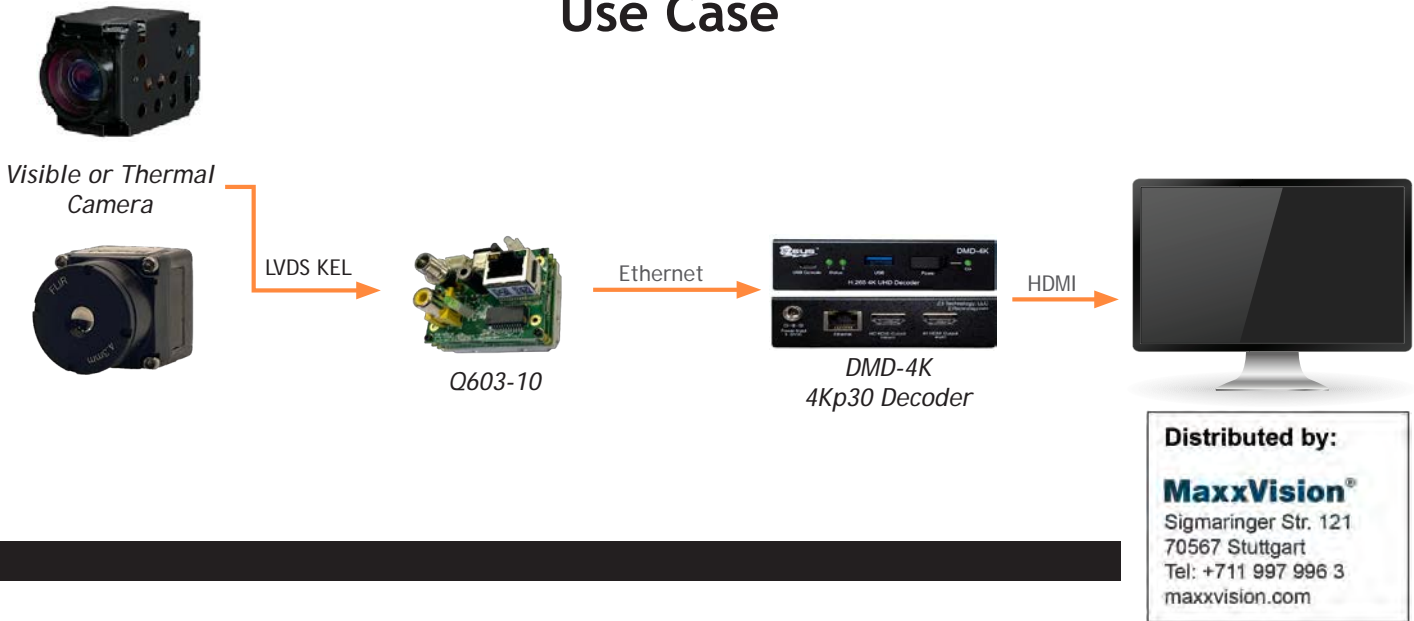*Camera Blocks and KEL ribbon cable sold separately**

APPLICATIONS

Video Streaming & Recording for

Embedded Applications

Inspection

Ummaned Systems

Security and Surveillance

Customized Applications*

*Contact Sales for Details

CE FC

_Z3-Q603-10_

| DC Power | → | Power Supply |

| Micro-HDMI Out | ← | HDMI TX | ← |

LVDS KEL

LVDS

Encoder Processor 4Kp30

Gb Ethernet

RS-232

USB Console

Micro SD

| Composite In | → | Composite RX | → |

| Micro-HDMI In | → | HDMI RX |

HDMI KEL

| RS-485 | ↔ | Drivers | ↔ |

Use Case

Visible or Thermal Camera

LVDS KEL →

_Q603-10_

Ethernet →

DMD-4K 4Kp30 Decoder

HDMI →

Distributed by:

MaxxVision®
Sigmaringer Str. 121
70567 Stuttgart
Tel: +711 997 996 3
maxxvision.com

Z³ Technology is an industry-leading, USA-based manufacturer of production-ready embedded multimedia solutions and IP camera systems. From our founders to our world-class engineers to our sales and customer service team, we understand your requirements and speak your language. Our experience allows us to provide cost-effective solutions to meet your multimedia product requirements. With the assistance of our robust worldwide distribution and sales networks, we can provide a simple solution for your multimedia needs.