Connection **Rack** - Q/Q²

The Connection Rack series converts video, audio, and optional binary signals in Ethernet network streams. Here, the Connection Racks serve simultaneously as power supply, digitizer and control interface for the connected cameras.

All signals are user-friendly set of channel-specific terminal blocks. This reduces installation time to a minimum! Thanks to channel-specific driver installation, various PTZ cameras can be connected by different manufacturers. Its compact design requires both the Connection Rack - Q, as well as the Connection Rack - Q² only four height units. The Connection Racks can be varied and extended.

3D Model.
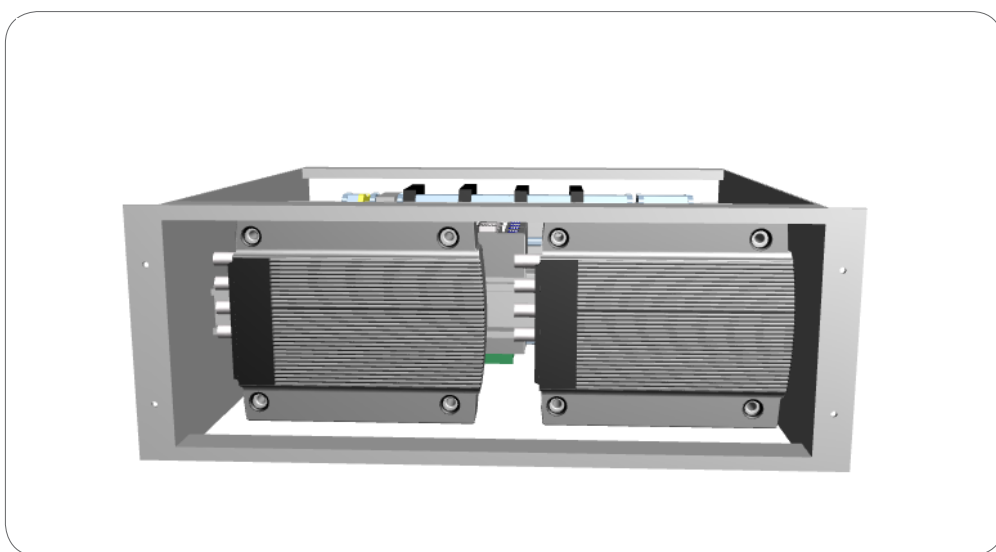
Connection Rail - Q²

Mechanichal characteristic:

Housing material:	Aluminum	Aluminum
Weight:	ca. 6 kg	ca. 8 kg
Dimensions:	482,6 x 177,8 x 405 (WxHxD) (4U)	482,6 x 177,8 x 405 (WxHxD) (4U)

Power supply:

Power supply:	100-240 VAC	100-240 VAC
Frequency:	47-63 Hz	47-63 Hz
Input current:	depending on the model: < 1 A @230 VACin	depending on the model: < 1 A @230 VACin
External fuse:	2A	2A
Transient:	To VDE 0160 / W2 (750V / 1.3ms), all loads	To VDE 0160 / W2 (750V / 1.3ms), all loads

Field and control power:

Field and control voltage:	12VDC to 30VDC (on terminal blocks for each camera)	12VDC to 30VDC (on terminal blocks for each camera)
Fuse fied circuit:	2000mA mT (depending on camera type)	2000mA mT (depending on camera type)

Interfaces:

Power supply:	Terminals of the internal power supply	Terminal block X0 (3xUT2,5)
Camera Connectors:	Terminal block X1 with fuses (for one camera)	Terminal block X1 with fuses (for up to four cameras)
Binary inputs and outputs:*	dry contacts*	dry contacts*
Ethernet:	RJ45 and/or fiber connector and/or wireless access point (model dependent)	RJ45 and/or fiber connector and/or wireless access point (model dependent)

* = Optional

Connection **Rack** - Q/Q^2

SAMCON
Prozessleittechnik GmbH
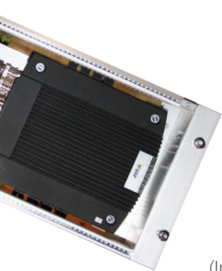
Models:	**T05-Q-XX-XXX**	**T05-Q2-XX-XXX**
	Video encoder:	
Video compression:	4 x H.264 (MPEG-4 Part 10/AVC 4 xMotion JPEG	8 x H.264 (MPEG-4 Part 10/AVC 4 xMotion JPEG
Resolutions:	4 x NTSC: 720x480 to 176x120 or 4 x PAL: 720x576 to 176x144	8 x NTSC: 720x480 to 176x120 or 8 x PAL: 720x576 to 176x144
Frame rate @ H.264:	30/25 (NTSC/PAL) fps in all resolutions and all streams	30/25 (NTSC/PAL) fps in all resolutions and all streams
Frame rate @ Motion JPEG:	30/25 (NTSC/PAL) fps in all resolutions and all streams	30/25 (NTSC/PAL) fps in all resolutions and all streams
Video streaming:	Multiple, individually configurable streams per channel in H.264 and/or Motion JPEG: 3 simultaneous streams in max. resolution at 30/25 fps from each channel; more streams if identical or limited in frame rate/resolution. Controllable frame rate and bandwidth VBR/CBR H.264	Multiple, individually configurable streams per channel in H.264 and/or Motion JPEG: 3 simultaneous streams in max. resolution at 30/25 fps from each channel; more streams if identical or limited in frame rate/resolution. Controllable frame rate and bandwidth VBR/CBR H.264
Image settings:	Compression, color, brightness, contrast Rotation: 90°, 180°, 270° Aspect ratio correction Mirroring of images Text and image overlay Privacy mask Enhanced deinterlace filter	Compression, color, brightness, contrast Rotation: 90°, 180°, 270° Aspect ratio correction Mirroring of images Text and image overlay Privacy mask Enhanced deinterlace filter

PTZ :
(Interface & Drivers)
	4 x RS422 or RS485 (full and half duplex);
	    RS232 as Option.
	Wide range of analog PTZ cameras supported
		8 x RS422 or RS485 (full and half duplex);
		    RS232 as Option.
		Wide range of analog PTZ cameras supported

	Audio:	
Audio streaming:	Two way, full duplex	2 x Two way, half-duplex on Channel 1 and 5
Audio compression:	AAC-LC 8 kHz 32 kbit/s, 16 kHz 64 kbit/s G.711 PCM 8 kHz 64 kbit/s G.726 ADPCM 8 kHz 32 or 24 kbit/s	AAC-LC 8 kHz 32 kbit/s, 16 kHz 64 kbit/s G.711 PCM 8 kHz 64 kbit/s G.726 ADPCM 8 kHz 32 or 24 kbit/s

Audio Input/Output:	T05-Q-<u>00</u>: 3.5 mm mic/line at the video server
	T05-Q-<u>DE</u>: DECT Interface
	T05-Q-<u>AM</u>: Amplifier and Microfone connectors on
	              terminal blocks
		T05-Q2-<u>00</u>: 3.5 mm mic/line at the video server
		T05-Q2-<u>DE</u>: DECT Interface
		T05-Q2-<u>AM</u>: Amplifier and Microfone connectors on
		               terminal blocks

	Network:	

Ethernet connectors:	T05-Q-XX-<u>XX1</u>: Ethernet Tx
	            (Connection point for Cat6 copper cable)
	T05-Q-XX-<u>X1X</u>: Ethernet FX
	            (Connection point for fiber optic cable)
	T05-Q-XX-<u>1XX</u>: Etherner WLAN
	            (Integrated Wireless Access Point)
		T05-Q2-XX-<u>XX1</u>: 2 x Ethernet Tx
		                (Connection point for Cat6 copper cable)
		T05-Q2-XX-<u>X1X</u>: 2 x Ethernet FX
		                (Connection point for fiber optic cable)
		T05-Q2-XX-<u>1XX</u>: Etherner WLAN
		                (Integrated Wireless Access Point)

Required TCP/IP Adresses:	4 (default: DHCP or 192.168.0.90 to 192.168.0.93)	8 (default: DHCP or 192.168.0.90 to 192.168.0.97)
Security:	Password protection, IP address filtering, HTTPS encryption, IEEE 802.1X network access control, digest authentication, user access log.	Password protection, IP address filtering, HTTPS encryption, IEEE 802.1X network access control, digest authentication, user access log.
Supported protocols:	IPv4/v6, HTTP, HTTPS*, IEEE 802.1X*, QoS layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS	IPv4/v6, HTTP, HTTPS*, IEEE 802.1X*, QoS layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS

Models.

T05- XX- XX-XXX

xx1 = Ethernet Tx (Connection point for Cat5 copper cable))
x1x = Ethernet FX (Connection point for fiber optic cable (ST patch panel)
1xx = Etherner WLAN (Integrated Wireless Access Point)

00   = No audio connection
DE   = Integrated DECT base station
AM   = Integrated Amplifier for speaker connection

Q   = Quad-port video servers (four cameras)
Q2   = 2 x Quad-port video servers (eight cameras)

T05 = Typ Nr. 05 (Connection Rail for use in non-explosive atmosphere)