



H.264 multi-codec with embedded AID

Siqura TrafficServer™

Features

- Traficon powered Incident Detection
 - Stopped vehicle and wrong-way drivers
 - Smoke detection (in tunnels only)
 - Occupancy and flow speed
 - Speed drop and under speed
 - Pedestrians
- High-quality video encoding
 - Quadstreaming support
 - H.264, MPEG-2, MPEG-4 and MJPEG
 - Low latency
- Field hardened
- Audio, data and digital I/O
- Open Streaming Architecture

Description

The Siqura[®] TrafficServer[™] is an intelligent solution for traffic applications. It offers a combination of incident detection, traffic data collection, and camera monitoring in a single temperature-hardened module. With proven Traficon technology embedded, the TrafficServer[™] provides real-time data and image information for optimal traffic control and accurate incident detection. Utilizing the full power of state-of-the-art DSPs, the TrafficServer[™] can simultaneously encode and stream in different formats, in real time with low latency, providing the best image quality for every situation. This unique combination of video and traffic management, assists traffic operators in reducing traffic jams and improving road safety.

Multi-codec and multi-streaming

The versatile TrafficServer[™] is capable of streaming H.264, MPEG-2, MPEG-4 and MJPEG simultaneously. Each stream is optimized for its purpose. Traffic data and events generated by the detection analytics can be displayed in the image, giving the operator a clear overview of the traffic situation. The power to choose between different video compression algorithms ensures interoperability with existing applications.



New Product Information

Audio, data, and I/O contacts

Combining streaming video with duplex audio, serial data, and I/O contacts over IP, the TrafficServer[™] provides all the interfaces necessary for any ITS application including: Bidirectional audio for intercoms or emergency phones; serial data for PTZ control or VMS signs; digital i/o for door contacts or PLC systems.

Fiber option

The TrafficServer[™] is optionally available with a pluggable SFP slot for connections via fiber optic cable (/SFP). A range of multimode or single-mode XSNet[™] SFP devices fit the empty SFP slot.

Siqura Open Solutions

The Siqura[®] TrafficServer[™] is part of Siqura, a complete offering of video surveillance equipment and solutions. Siqura offers video codec/servers, IP cameras, video management, network storage, and configuration software. To integrate both video management (live viewing, retrieval of stored images, event-triggered switching) and traffic management (traffic data collection, events, incidents) in a single traffic management system, Optelecom-NKF can also provide SDKs and API descriptions.

Ordering information

Model	Description	Housing	Managed
Siqura TrafficServer Siqura TrafficServer-SFP	H.264 multicodec w/ embedded AID, audio, data and CCs H.264 multicodec w/ embedded AID, audio, data and CCs, 100MB SFP slot		HTTP/SNMP/MX HTTP/SNMP/MX
Siqura TrafficServer /SA	Stand-alone version of rack-mount models	Stand-alone	HTTP/SNMP/MX

Sigura TrafficServer™

Preliminary Technical Specifications

Video

Video channels Input level Compression algorithm

Type of streaming Number of output streams Input impedance Video Motion Detection Encoding latency Resolution GOP structure Frame rate Quad streaming:¹

Output data rate

Video settings

On Screen Display (OSD)

Live View Encoder (MJPEG) Connector type

Audio

Number of channels Number of streams Maximum bandwidth Sampling resolution Input level Output level Input impedance Output impedance Connector type

Transmission interface

Number of interfaces Interface 10/100Base-TX

Protocols

Connector type

Powering

Power consumption Rack-mount units Stand-alone units (/SA)

Management

LED status indicators DC NV SYNC Ethernet port Network Management & Control

Environmental

Operating temperature Relative humidity MTBF Safety & EMC

Mechanical

Dimensions (h x w x d) Weight (approx.) Housing

1x PAL/NTSC (Auto/PAL/NTSC) 1 Vpp (±3 dB) H.264 BP (ISO/IEC 14496-10) MPEG-2 (ISO/IEC 13818-2), MJPEG, MPEG-4 (ISO/IEC 14496-2, ISMA comp.) UDP/IP (multi- and/or unicast) Up to 20 $75\Omega/Hi-Z$ selectable Yes (user-defined masking) <130 ms typ. D1, ½D1, 2CIF, CIF, QCIF, VGA I, IP (selectable/user profiles) 1 to 30 fps D1@30fps H264 + D1@30fps MPEG-2² + D1@ 30fps MPEG-4 + CIF@1fps MJPEG up to 20 Mb/s (CBR or VBR selectable/user profiles) User profiles, contrast, brightness, color saturation, hue, sharpness 3x Text lines (configurable: position, color, border/outline color, font size),1x image in BMP, GIF, or JPEG format (configurable: position, scaling, AID overlay) HTTP, FTP pull BNC 75Ω (gold-plated center pin)

2 (stereo, full-duplex) 3 (multi- and/or unicast) 20 Hz to 20 kHz 8/16-bits linear PCM or G.711 Adjustable, mic or line Adjustable, 3 Vrms max. >20 k Ω or 600 Ω bal. <100 Ω bal. RJ45

Fast Ethernet Autonegotiation, half-duplex/full-duplex, 10/100 Mb/SFP option Empty SFP slot for 100 Mbps SFP device H. 264 BP, MPEG-4 ES, MPEG-2 TS, MPEG-2 ES, (M)JPEG, RTP, RTCP, RTSP, TCP, UDP, IP, DHCP, IGMPv2, (S)NTP, MX/IP, HTTP, SNMP v2, FTP, TelNet, DiffServ, SAP, UPnP RJ45

<5W MC-10 and MC-11 power supply cabinets 11 to 19 VDC (PSA-12 DC/25 or PSR-12 DC)

Power-on indicator (green) No video on input (red) All links are operational (green); failure in RX stream(s) (yellow); failure in TX stream(s) (red) Green LED: on=100 Mb, off=10 Mb; Amber LED: on=link okay, flashes with activity SNMP v2, MX[™], HTTP API, HTML (password protected)

-40° F to +165° F (-40 °C to +74 °C) <95% as long as there is no condensation. TBD TBD

5.04 x 1.34 x 7.5 in. (128 x 34 x 190 mm) 15.80 oz. (450g) Rack-mount or stand-alone (/SA)

¹ Indicated combinations are based on 100% DSP capacity ² I-frame only, GOP = 1



Contact Closure

Number of channels Number of streams Output Connector type

Data Number of channels Number of streams Interfaces

Stream Data rate Connector type 2x in, 2x out 2x 3 (multi- and/or unicast) Fail-safe, potential-free RJ45

2 (full-duplex) 2x 3 (multi- and/or unicast) 1x RS232 1x RS422/485 (2- or 4-wire) TCP/UDP/MX configurable 300 b/s to 230.4 kb/s RJ45







The quality management system utilized in the development, production, sales and support of this product is ISO 9001:2008 certified by LRQ