

# TECHNICAL SPECIFICATIONS

## TI X-STREAM EDGE & 4/Os XP.

### TI x-stream EDGE

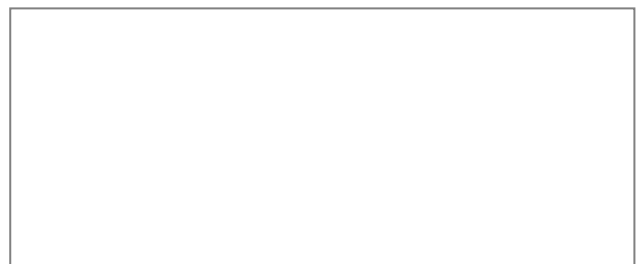
<b>Name Interface</b>	TrafiCam Interface x-stream EDGE
<b>Abbreviation (short name)</b>	TI x-stream EDGE
<b>Product Reference Number</b>	10-6055
<b>Basic Functionality</b>	<ul style="list-style-type: none"> <li>- Connecting zone outputs from BPL sensor(s) to controller</li> <li>- Routing power to BPL sensor(s)</li> <li>- Connecting (portable) PC to BPL sensor(s) for system configuration &amp; viewing</li> </ul>
<b># BPL Sensors to Connect</b>	1-8 BPL sensors <i>Notes: 1 TrafiRadar counts as 2 BPL sensors, hw R03.16 recommended when &gt;5 BPL sensors</i>
<b>Power IN</b>	10,8-26,5VDC via EDGE connector (back, pins A/B), power LED (front, red) Separate 12-24VDC +/- 10% via EDGE connector (back, pins J/K) for BPL sensors <i>Note: up to 48VDC on pins J/K possible from hardware revision R03.16 onwards</i>
<b>Power OUT</b>	Idem power IN and coms to BPL sensors via EDGE connector (back, pins D/E)
<b>Port PC – Interface</b>	2 RJ45 Ethernet connectors (10/100Mbit/s auto switching)
<b># Detection Outputs</b>	<ul style="list-style-type: none"> <li>- 4 optical coupled dry contacts via EDGE connector (back, pins F/H, W/X, S/T, Y/Z)</li> <li>- <math>I_{max} = 50mA</math>, <math>U_{max} = 48VDC</math></li> <li>- Close on event or open on event (setting in TCT**)</li> <li>- 4 output LEDS (green, front)</li> <li>- Detection output 1-4 and common detection output 1-4</li> </ul> <i>Note: max. 20 extra detection outputs can be added via max. 5 4/Os xp. units *</i> <i>Note: via RS485 (pins U/V) + PIM module, output states can be provided to TS2 controllers</i>
<b># BPL Sensor Error Outputs</b>	<ul style="list-style-type: none"> <li>- 1 optical isolated switch component via EDGE connector (back, pins P/R)</li> <li>- <math>I_{max} = 50mA</math>, <math>U_{max} = 48VDC</math></li> <li>- Open on event (hardware output)</li> <li>- 8 BPL sensor status LEDS (red = error, front)</li> <li>- Error output and common error output</li> </ul>
<b>Function of Error Outputs</b>	<ul style="list-style-type: none"> <li>- Error output active = error in TI x-stream EDGE or power supply down, or</li> <li>- Error output active = error in 4/Os xp. with output(s) assigned (e.g. no communications), or</li> <li>- Error output active = error in corresponding BPL sensor (e.g. no communications)</li> </ul>
<b>Interface Firmware</b>	Yes
<b>Communications BPL Sensor – Interface</b>	BPL, Traficon protocol (XML)
<b>Cable BPL Sensor – Interface</b>	3 wires via clamps (back): - 2 wires for DC power & communication: broadband over power line (BPL) - 1 wire for protective earth
<b>Current Consumption</b>	$\leq 160mA @ 24VDC$
<b>Power Consumption</b>	$\leq 4W$ (5W peak at start-up)
<b>Mass</b>	$\approx 270g$
<b>Physical Dimensions (H x W x D)</b>	115mm x 57mm x 165mm Standard US EDGE rack height & depth; width = double slot
<b>Interface Mounting</b>	EDGE-rack mountable
<b>Regulatory Issues</b>	<ul style="list-style-type: none"> <li>- FCC: FCC Part 15 class A</li> <li>- Shock &amp; Vibration NEMA II specs</li> <li>- Temperature range NEMA II specs: -34C to +74C</li> </ul>

## 4/Os xp.

<b>Name Interface</b>	Single slot 4-output expansion board
<b>Abbreviation (short name)</b>	4/Os xp.
<b>Product Reference Number</b>	10-4670
<b>Basic Functionality</b>	Connecting extra outputs to controller
<b># BPL Sensors to Connect</b>	None, connection LED (front, red) for connection with TI x-stream EDGE
<b>Power IN</b>	10,8-26,5VDC via RJ11 connector (front) Powered by TI x-stream EDGE (RJ 11 connector, front), power LED (front, red)
<b>Power OUT</b>	None
<b>Port PC – 4/Os xp.</b>	None
<b># Detection Outputs</b>	<ul style="list-style-type: none"> <li>- 4 extra optical coupled dry contacts per 4/Os xp. via EDGE connector (back, F/H, W/X, S/T, Y/Z)</li> <li>- <math>I_{max} = 50mA</math>, <math>U_{max} = 48VDC</math></li> <li>- close on event or open on event (setting in TCT**)</li> <li>- 4 output LEDS (green, front)</li> <li>- detection output 1-4 and common detection output</li> </ul> <p><i>Note: max. 20 extra detection outputs can be added via maximum 5 4/Os xp. units</i>  <i>Note: Channel selector switch on PCB to enable outputs 5-8, 7-10, ..., 21-24</i></p>
<b># Error Outputs</b>	None
<b>Function of Error Outputs</b>	None
<b>Interface Firmware</b>	None
<b>Communications BPL Sensor – 4/Os xp.</b>	Serial, via RJ11 connector (front, for power and output states to 4/Os xp.)
<b>Cables TI x-stream EDGE – 4/Os xp.</b>	RJ11 connector (back): power and communication of output states from TI x-stream EDGE to 4/Os xp.
<b>Current Consumption</b>	$\leq 25mA @ 24VDC$
<b>Power Consumption</b>	$\leq 600mW$
<b>Mass</b>	$\approx 100g$
<b>Physical Dimensions (H x W x D)</b>	115mm x 28,5mm x 165mm Standard US EDGE rack height & depth; width = single slot)
<b>Interface Mounting</b>	EDGE-rack mountable
<b>Regulatory Issues</b>	<ul style="list-style-type: none"> <li>- FCC: FCC Part 15 class A</li> <li>- Shock &amp; Vibration NEMA II specs</li> <li>- Temperature range NEMA II specs: -34C to +74C</li> </ul>

\* **4/Os xp. = Single slot 4-output expansion board**

\*\* **TCT = Traficon Configuration Tool**



Data subject to alternation without notice or obligation

Issue: NOV2017