

# Product snapshot

## PIXY-1000

On-board Visualisation



HaslerRail's range of on-board electronics can be interconnected to equip your rail vehicles with a fully networked system for data recording, speed sensing, data and energy management and visualisation

## PIXY-1000

### Presenting rail vehicle information with clarity and reliability

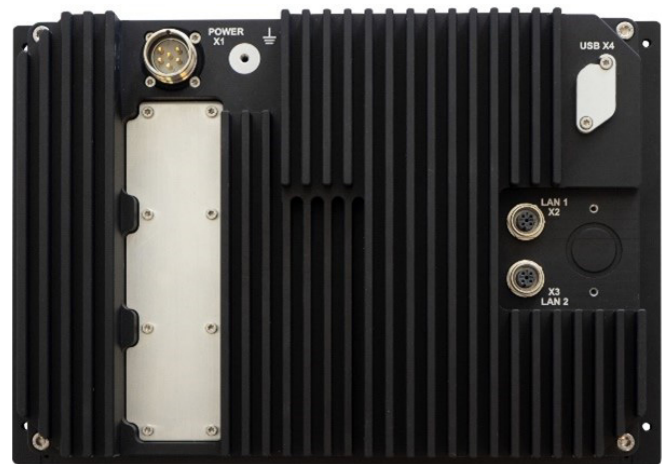
PIXY-1000 is an HMI product platform designed for a wide range of railway visualisation applications. It is particularly suited to on-board visualisation of TCMS, ETCS, PIES, CCTV and similar systems. The HMI is typically mounted in the driver's desk of a locomotive, multiple unit, tram or other train type.

- Optimised for all visualisation applications
- Scalable, high performance yet lean
- Maintenance-free
- RoHS and REACH compliant
- Scratch and detergent resistance housing and durable PCAP touchscreen

The platform offers a lean, high performance solution for new-build rail vehicles and at the same time, offers a level of flexibility suitable for use in vehicle refurbishment and the after-sales market. High reliability electronics are assembled within a durable, compact housing complete with full colour resistive or PCAP touch screens. The latter features a glass front panel that gives an air of modernity and elegance. The use of optical bonding and high quality TFT displays ensures that vehicle data and operational information remain perfectly legible under all ambient light conditions.

The HMI is an open platform and can be delivered with HaslerRail AG's PIXY Linux operating system or one defined by the end user. For custom screen building, application development or porting, we offer the PIXY PAD-1000 tool suite.

Feature	Unit	Detail / value
Operating temperature range	C	-40° - +85°
Ingress protection class	N/A	IP65 (front) IP42 or IP54 (rear)
Reliability	h	MTBF >150,000



PIXY-1000 - rear panel



Feature	Unit	Detail / value
Display size	Inches	10.4 and 12.1
Front panel configuration	N/A	Touch only Touch and Key Panel
Interfaces	N/A	Ethernet, MVB, CAN, Serial, Digital I/O, Audio and PC104
CPU	N/A	Intel Atom Apollo Lake E3930 dual core 1.30 GHz and E3940 quad core 1.60 GHz
RAM	GB	4
Mass storage	GB	8 - 16
Input voltage range	VDC	24 - 110
Typical power consumption	W	20 - 30

#### Observed standards

EN50155:2021	EN 50124-1:2017
EN 60529:1991 + A1:2000 + A2:2013	EN 50153:2014 + A1:2017
EN 61373:2010	EN 50121-3-2:2016
EN 45545-2:2020	