



- **AI-based Classification**
- **Drop-in Replacement for Previous Generation**
- **Autotuning**
- **Easy Installation**
- **ITxPT Ready**
- **Automotive and Rolling Stock certifications**
- **Antitamper**
- **Open Platform**

Features

AI Classification : A powerful AI engine provides adult vs child classification and can be optionally expanded to recognize wheelchairs, strollers, bicycles and custom objects and scenes

Drop-in Replacement : Form, Fit and Function replacement for previous generations of Eurotech People and Passenger Counters (PCN-1001, DynaPCN 10-20), including the serial versions

Autotuning : A smart autotuner optimizes the parameters to get the optimal performance and eliminates all the time consuming guesswork

Easy Installation : A greatly improved mechanical designed dramatically simplifies and accelerates the physical deployment in the vehicle

ITxPT Ready : Designed to meet ITxPT, with support for Ethernet and PoE on a M12 connector

Automotive and Rolling Stock : Certified for E-Mark and EN50155, EN45545, with extended operating temperature, isolated interfaces and a wide range, protected power supply

Antitamper : An antitamper mechanical design eliminates the need for a service panel and greatly improves the physical resilience against physical tampering

Open Platform : Features Everyware Software Framework (ESF), the IoT Java/OSGi based-middleware for IoT gateways that accelerates gateway development and enables remote management

Open, No-lock-in : Based on open standards and Cloud agnostic, it can be integrated with all major platform and service provides

Description

The DynaPCN 10-30 is a rugged People Counter certified for Public Transport, Road Vehicles and Rolling Stock that adds advanced AI capabilities to traditional people counting function.

The powerful AI engine that comes with the DynaPCN 10-30 provides adult vs child out-of-the-box capabilities and can optionally support additional classification models to enable the recognition of bicycles, strollers, wheelchairs; additional ad-hoc classification models can be developed as a Professional Service.

The DynaPCN 10-30 offers a simple and efficient opportunity to adopt or migrate to the most advanced requirements: for new deployments, it provides a smooth path towards ITxPT, while for existing fleets, it brings the latest capabilities while keeping a full Form-Fit-Function compatibility with Eurotech previous generation People/Passenger counters, including the ones based on serial communication.

Thanks to a smart autotuning function, the DynaPCN 10-30 dramatically improves the configuration time, completely removing the guesswork that is typically required to reach the optimal performance in a real-world deployment; the physical installation time is also very fast, thanks to an improved mechanical design that positions the connector in an installer-friendly location and that offers a range of options for cabling, from rugged low-cost DB15 up to ITxPT M12

The DynaPCN 10-30 also provides a high level of tamper resistance with an innovative design that eliminates the need for a service panel (in some SKUs), removing a critical attack point and delivering at the same time a superior aesthetic experience.

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Ordering code: DYPCN-10-30-XX

XX		-01*	-02*	-03	-12
VISION	3D Camera	Time of Flight, QVGA @30fps Resolution, 850nm Wavelength			
	2D Camera	RGB, 2Mp Resolution			
COUNTING	Accuracy	>99%			
	Precision	>99%			
ILLUMINATOR	Type	Infrared 850nm Wavelength			
AI CLASSIFICATORS	Classes	Adult vs Child; Wheelchair, Bicycles and Strollers (Factory Option)			
VIDEO	Live Streaming	H.264			
	Event Recording	Factory Option (contact Eurotech for details)			
I/O INTERFACES	Ethernet	No	1x 10/100Mbps		
	PoE	No			Yes
	Serial	1x RS-485 Isolated	No	1x RS-485 Isolated	No
	Digital I/O	1x Digital IN (Optoisolated)			
MAINTENANCE	Service Panel	Yes, Magnetic Cover	No Service Panel		
OTHER	RTC	Yes, with SuperCAP (up to 15 Days Retention)			
	EEPROM	256 Kbit			
	LED	1x System, 1x Maintenance			
CONNECTORS	System Connector	1x DB15HD			
POWER	Input	6-60VDC (24 and 48VDC Nom) Surge, Noise, Rev Polarity, Overvoltage & Short Protection, Load Dump			PoE+
	Power Backup	10s Hold-up After Power Failure (Safe-shutdown) Configurable Sleep Timer, to Manage Shutdown			
	Consumption	<10W Typical (15W Max.)			<10W Typical (13W Max.)
ENVIRONMENT	Operating Temperature	-40 to +70°C TX/OT4 According to EN50155			
	Storage Temperature	-40 to +85°C			
	Humidity	5 to 95% Relative Humidity (Non-condensing) at +40°C			
CERTIFICATIONS	Regulatory	UE/UK: CE, UKCA; North America: FCC, ISED			
	Safety	IEC 62368-1, UL 62368-1 (S)			
	Rolling Stock	EN50155, EN45545			
	Automotive	E-Mark R10, ITxPT Ready			
	Environmental	ROHS3, REACH			
	Ingress	IP65			
MECHANICAL	Enclosure	Material: Aluminum – Magnesium Alloy			
	Dimensions	Frame: 100x230x3mm (Height x Width x Thickness); Cut-Out: from 82x209x42mm (Height x Width x Depth, Frame at 0°) to 82x209x70mm (Height x Width x Depth, Frame at 45°); Mechanically Compatible with Eurotech People Counters			
	Installation Height	1.9m Min., 2.5m Max.			
	Detection Width	1.6m Min., 2.5m Max.			

S UL, NRTL listing Factory Option.

* Contact Eurotech for more information

The DynaPCN 10-30 has a DB15HD connector on the rear side for power supply and data connection. There are three ways to connect the DynaPCN 10-30:

- Direct connection to the DB15HD connector

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- Using the **bundles** that include a **Connector Box**.

A connector Box is an accessory attached on the rear side of the DynaPCN 10-30 that makes it a Form Fit Function (FFF) replacement for DYPCN-10-20-xx, PCN-1000, and PCN-1001:

DynaPCN 10-30 + Connector Box			
Ordering Codes	DYPCN-10-30-21	DYPCN-10-30-01 + Connector Box (Type A)	FFF for PCN-1000 and PCN-1001
	DYPCN-10-30-22	DYPCN-10-30-02 + Connector Box (Type B)	FFF for DYPCN-10-20-xx
	DYPCN-10-30-23	DYPCN-10-30-03 + Connector Box (Type B)	FFF for DYPCN-10-20-xx
	DYPCN-10-30-32	DYPCN-10-30-12 + Connector Box (Type B)	FFF for DYPCN-10-20-xx

- Using the **cable-adapters** that can be attached on the DB15HD connector:

Cable-adapters		
Ordering Code	Contact Eurotech	1x DB15HD to 1x M12 ITxPT
	Contact Eurotech	1x DB15HD to 1x M12 Eurotech DynaPCN 10-20-xx
	Contact Eurotech	1x DB15HD to Other Style (Factory Option)