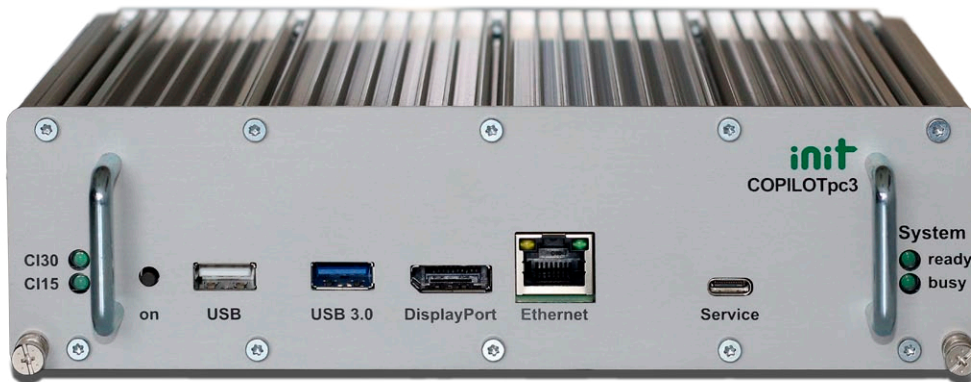# COPILOTpc3

PC-based On-Board Computer for Vehicles

Today's ITS applications impose particularly high requirements on the performance of on-board computers and call for the exchange of large volumes of data between vehicle and control center. INIT responds to this challenge with COPILOTpc3. With a more powerful processor and its extended storage capacity, this vehicle IT and communication platform sets new standards in terms of performance.

COPILOTpc3 renders additional vehicle components unnecessary. Its powerful operating system, Microsoft Windows 10 IoT Enterprise, allows for the use of standard software and various applications such as Vehicle Health Monitoring and Electromobility. Integration is made easy through support of industry standard interfaces. The rear connectors are compatible with the predecessor model COPILOTpc2. COPILOTpc3 can run together in one and the same fleet with COPILOTpc2.

init
The Future of Mobility

Powerful IT and communication platform

All conventional ITS functionality
(positioning, schedule adherence, etc.)

Microsoft Windows 10 IoT Enterprise

Integrated communication and passenger announcements modules,
text-to-speech,
speech recognition

Manages data and voice radio (e.g. VoIP)

Supports standard software

5G
Ready for 5G

COPILOTpc3

- Intel Atom Processor with high computing power
- Microsoft Windows 10 IoT Enterprise
- Supports standardized interfaces: ITxPT, VDV301 IBIS-IP
- Numerous hardware interfaces and input/output signals
- Enhanced GPS positioning through map matching and usage of Multi-GNSS

Technical Data

CPU	Intel Atom E3825, Dual Core, 1.33 GHz
Memory	2 GB DDR3-RAM; 16 GB – 64 GB SSD; optionally: additional µSD-card
Operating system	Microsoft Windows 10 IoT Enterprise
Interfaces	19 x inputs (1 x galvanically isolated) 16 x outputs (4 x galvanically isolated) 1 x odometer input 1 x ignition input 5 x RS232; 1 x CAN-FD (BUS-FMS/J1939); 2 x RS485; 1 x VDV300 IBIS car bus (master/slave) 1 x Fast Ethernet (100 MBit/s); 1 x Gigabit Ethernet (1000 MBit/s); 3 x USB 2.0; 1 x USB 3.0; 1 x J1708; 1 x Display Port 4 x audio line in; 1 x microphone in; 4 x audio line out 1 x operator handset output; 1 x operator speaker output
Optional interfaces	RS232, RS422, RS485, CAN electr. isolated, J1708 galvanically isolated APIX display interface for TOUCHmon
Optional communication	Integrated wireless LAN (Wi-Fi, 802.11a/b/g/n) up to 300 Mbit/s Multi-GNSS GPS; Multi-GNSS GPS with Dead Reckoning; GSM; GPRS/EDGE; UMTS/3G; CDMA; LTE/4G; prepared for 5G
Power supply	8 V to 36 V; typically 12 W
Temperature range	-30° C to +70° C operation [-22° F to +158° F] -40° C to +70° C storage [-40° F to +158° F]
Housing	Aluminium continuous profile; front and rear cover: aluminium metal sheet 206 mm [8.11"] x 57 mm [2.25"] x 170 mm [6.69"] (width x height x depth)
Weight	Approx. 1.4 kg [3.09 lbs]
Certifications/approvals	FCC; CE; ECE-R 10 (EMV, E1); EN 45545-2 (fire safety); EN 50155 (shock/vibration/climate)

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