



ProfiDAT[®] *compact*
Data-Transmission System



CONDUCTIX
wampfler
Ⓞ DELACHAUX GROUP

ProfiDAT[®] compact

ProfiDAT[®] compact is a system for continuous data transmission between a local network and moving, rail guided consumers.

ProfiDAT[®] compact uses the principle of slotted waveguides for its Ethernet based data transmission. Therefore, it will have no interferences and is able to coexist with other wireless systems.

The system is the most compact slotted waveguide available and furthermore can be used as PE rail as well as positioning rail at the same time.

This leads to significant space, cost as well as installation time savings, as three independent systems are now combined in only one solution.

The ProfiDAT[®] compact data-transmission system is ideal for use in combination with Conductix-Wampfler conductor-rail ranges 811, 831, 812, 815 and 835. This facilitates countless usages in different applications in the most varied industrial sectors.

- Data transmission at high speed
 - Lowest interference possible
 - Real-time data transmission
 - PROFIsafe compatible
- Smart and fully integrated
 - Data transmission
 - PE-rail
 - Optical positioning
- Considerable reduction of space
- Most compact slotted waveguide
- Compatibility to lifters, trolleys



Best safety and reliability

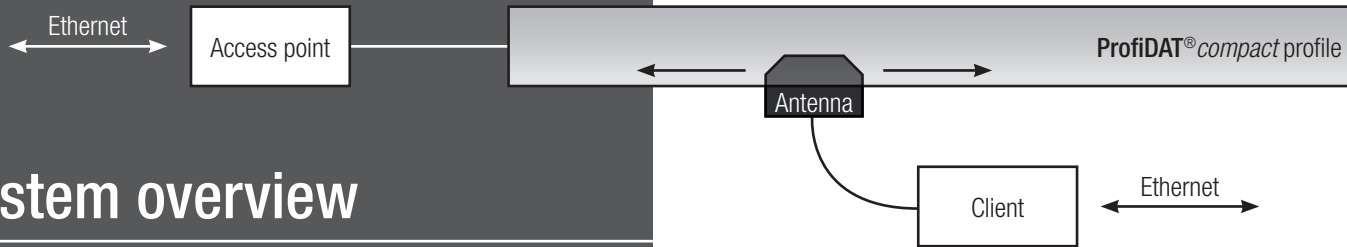
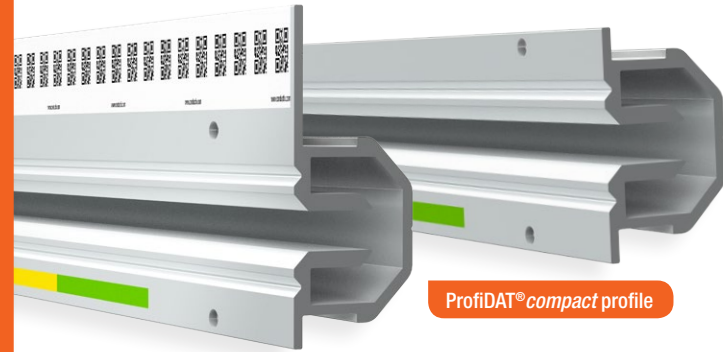
Interference potential with other wireless systems through slotted waveguide technology
Data transmission through PROFINET prioritization

Compact solution through unique 3 in 1 functionalities

Reduction of installation time (only 1 instead of 3 systems needs to be installed)

Waveguide available: minimal installation space required

Transitions, curves, etc.

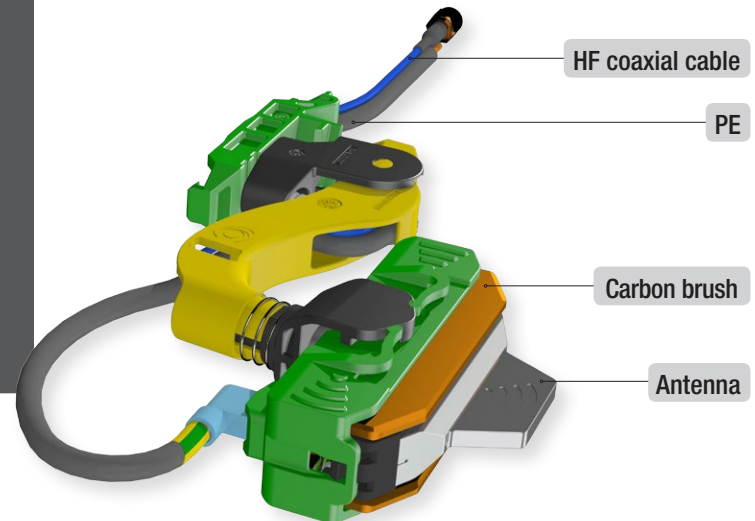


System overview

- Data Rates: Up to 100 MBit/ s
- WIFI Standard: IEEE802.11 – 5 GHz
- Data Interface: Ethernet
- Compatible control Protocols: PROFINET/ PROFIsafe
- Data Transmission: Control Signals + Video/ Audio
- System lengths: No Limitation (through rapid roaming)
- Segment lengths: Up to 100 m
- Number of Consumers per Segment: Up to 6
- Cycle time: Beginning from 32 ms
- Current for PE function: Up to 32 A per mobile antenna
- Positioning: Optical bar or data matrix code

Target Applications

- Automated storage and retrieval systems (AS/RS)
- Shuttles
- Transfercars
- Sorter
- Electrified Monorail System (EMS)



ProfiDAT® compact mobile antenna

www.conductix.com

Conductix-Wampfler has just one critical mission: To provide you with energy and data transmission systems that will keep your operations up and running 24/7/365.

To contact your nearest sales office, please refer to:
www.conductix.com/contact-search

