netFIELD DEVICE
IO-LINK WIRELESS

IO-LINK WIRELESS MASTER WITH REAL-TIME ETHERNET AS READY-TO-USE IP67
Hilschers netFIELD Device IO-Link Wireless Master extends the scope of IO-Link compatible sensors and actors to the wireless spectrum. This opens up new possibilities for plant operators and machine builders to equip their devices with industrial sensors and actuators and integrate them easily and reliably into industrial networks.

Based on the proven hardwired IO-Link standard, users of IO-Link Wireless can rely on familiar technologies and equip inaccessible sensors or actuators in production plants, robots with high degrees of freedom or legacy systems with IO-Link technology. Potential failure points such as broken cables are eliminated and downtimes can be reduced.

**HIGHLY VERSATILE**
Can be integrated into PROFINET, EtherNet/IP and EtherCAT networks

**16 WIRELESS IO-LINK DEVICES PER MASTER**
Two parallel IO-Link Wireless transmission tracks enable simultaneous communication with up to 16 IO-Link Wireless Devices

**RELIABLE REAL-TIME-COMMUNICATION**
Reach 5ms as a minimum possible transmission cycle time per device and Wireless range of point-to-point communication up to 10 meter

**SIMPLE PAIRING OF SENSORS & ACTUATORS**
Scan mode and Pairing function enable connection of discoverable IO-Link devices

**EASY SETUP**
Configurable via description files within the engineering tool or the integrated web server

**INTEGRATED DIAGNOSTICS**
Via OPC UA Server & MQTT Client

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### THE REAL-TIME ETHERNET - IO-LINK WIRELESS MASTER GATEWAY

**EASY SETUP**
Configurable via description files within the engineering tool or the integrated web server

### SIMPLE SOLUTIONS THROUGH FLEXIBLE CONNECTION

1. **REDUCTION OF INSTALLATION EFFORTS**
The wireless point-to-point communication technology enables the cyclic exchange of digital input and output process data between the Master and its associated devices.

2. **INCREASE OF COMMUNICATION CHANNELS**
Traditional hardwired IO-Link masters only offer eight ports in most cases, half the amount of Hilschers Wireless Master.

3. **PROFESSIONAL SOFTWARE SUPPORT**
Hilscher provides comprehensive software tooling such as an IO-Link configuration tool.

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### ACCESSIBILITY OF SPACE LIMITED AREAS

Wireless data connections will not break due to physical stress as a result of moving robot arms for example.

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### CHOOSE YOUR BUSINESS CASE

1. **DIRECT PURCHASE**
Purchase your netFIELD Device IO-Link Wireless Master directly from Hilscher.

2. **BRANDLABEL YOUR DEVICES**
Enables you to incorporate the Wireless Master into your own product portfolio. Additional services such as tailor-made laser printing on the housing are also available.

3. **PCB BRANDING - PROFIT FROM OUR EXTENSIVE KNOWLEDGE IN INDUSTRIAL COMMUNICATION!**
Design your own housing utilizing reliable and proven Hilscher technology in your solution. Additional services such as PCB modification, config tool branding and project management are also available.

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More reliability, availability and flexibility with netFIELD Device IO-Link Wireless Master.
## Fact Sheet - The Technical Data

### Primary Side

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Interface</td>
<td>PROFINET, EtherCAT, EtheNet/IP</td>
</tr>
<tr>
<td>Connection technology: fieldbus</td>
<td>M12 D-kodiert; 4-polig</td>
</tr>
<tr>
<td>Interface type</td>
<td>10BASE-T/100BASE-TX; potential free</td>
</tr>
<tr>
<td>Autonegotiation; Autocrossover</td>
<td>yes</td>
</tr>
<tr>
<td>PROFINET-IO-properties</td>
<td>PROFINET-IO-Device; 2-Port-Switch, LLDP, MRP, SNMP</td>
</tr>
</tbody>
</table>

### Device Function

- **Device function**: OPC UA server, MQTT client
- **Visualization**: Web server
- **Configuration**: Web server / PLC engineering tool

### Secondary Side

- **Number of IO-Link ports**: 2 transmission tracks = 16 IO-Link wireless devices
- **Minimum transmission cycle time**: 5 ms
- **Transmission range**: The possible range of a Wireless Master is limited to 20 m. Derating to ≤ 10 m if more than one track is active
- **Transmission power**: In total of 10 mW (max. ≤ 10 dBm) within 2.4 GHz ISM frequency
- **Standards**: FCC 15.247 and EN 300 328

### Supply Module

- **Connection technology**: Supply M12 L-coded; 5-pole
- **Supply voltage**: 1L/2L: DC 24 V (-25 ... +30 %)
- **Current consumption**: Max. 16 A per supply line; overload and short circuit proof
- **Reverse polarity protection**: yes
- **Ambient temperature (working)**: -25 °C ... +70 °C
- **Dimension (B x H x T)**: 30 x 42 x 200 mm
- **Weight**: 227 g
- **Authorization**: CE / FCC / ISED / RED

### Article Name

<table>
<thead>
<tr>
<th>Article Name</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFD-3090-PNS-IOLM\W</td>
<td>1912.102</td>
<td>netFIELD IO-Link Wireless Master PROFINET IO-Device</td>
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<tr>
<td>NFD-3090-ECS-IOLM\W</td>
<td>1912.112</td>
<td>netFIELD IO-Link Wireless Master EtherCAT Slave</td>
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<tr>
<td>NFD-3090-EIS-IOLM\W</td>
<td>1912.122</td>
<td>netFIELD IO-Link Wireless Master EtherNet/IP Adapter</td>
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