

# ILNAS

Institut luxembourgeois de la normalisation  
de l'accréditation, de la sécurité et qualité  
des produits et services

**ILNAS-EN IEC 61784-2-6:2023**

**Industrial networks - Profiles - Part  
2-6: Additional real-time fieldbus  
profiles based on ISO/IEC/IEEE 8802-3 -  
CPF 6**

Réseaux industriels - Profils - Partie 2-6:  
Profils de bus de terrain supplémentaires  
pour les réseaux en temps réel fondés sur

- ISO/IEC/IEEE 8802-3 - CPF 6

Industrielle Kommunikationsnetze -  
Profile - Teil 2-6: Zusätzliche  
Feldbusprofile für Echtzeitnetzwerke  
basierend auf ISO/IEC/IEEE 8802-3 -

**05/2023**



## National Foreword

This European Standard EN IEC 61784-2-6:2023 was adopted as Luxembourgish Standard ILNAS-EN IEC 61784-2-6:2023.

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Supersedes EN IEC 61784-2:2019 (partially)

English Version

**Industrial networks - Profiles - Part 2-6: Additional real-time  
fieldbus profiles based on ISO/IEC/IEEE 8802-3 - CPF 6  
(IEC 61784-2-6:2023)**

Réseaux industriels - Profils - Partie 2-6: Profils de bus de terrain supplémentaires pour les réseaux en temps réel fondés sur l'ISO/IEC/IEEE 8802-3 - CPF 6 (IEC 61784-2-6:2023)

Industrielle Kommunikationsnetze - Profile - Teil 2-6: Zusätzliche Feldbusprofile für Echtzeitnetzwerke basierend auf ISO/IEC/IEEE 8802-3 - Kommunikationsprofilfamilie (CPF) 6 (IEC 61784-2-6:2023)

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European Committee for Electrotechnical Standardization  
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Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

## European foreword

The text of document 65C/1209/FDIS, future edition 1 of IEC 61784-2-6, prepared by SC 65C "Industrial networks" of IEC/TC 65 "Industrial-process measurement, control and automation" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61784-2-6:2023.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2024-02-04
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2026-05-04

This document, together with other parts of the same series, partially supersedes EN IEC 61784-2:2019 and all of its amendments and corrigenda (if any).

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## Endorsement notice

The text of the International Standard IEC 61784-2-6:2023 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

|                      |  |
|----------------------|--|
| IEC 61158-1          | NOTE Approved as EN IEC 61158-1          |
| IEC 61158-3-8        | NOTE Approved as EN 61158-3-8            |
| IEC 61158-4-8        | NOTE Approved as EN 61158-4-8            |
| IEC 61158-5-8        | NOTE Approved as EN 61158-5-8            |
| IEC 61158-5-10       | NOTE Approved as EN IEC 61158-5-10       |
| IEC 61158-6-8        | NOTE Approved as EN 61158-6-8            |
| IEC 61158-6-10       | NOTE Approved as EN IEC 61158-6-10       |
| IEC 61784-1 (series) | NOTE Approved as EN IEC 61784-1 (series) |
| IEC 61784-1-0        | NOTE Approved as EN IEC 61784-1-0        |
| IEC 61784-2 (series) | NOTE Approved as EN IEC 61784-2 (series) |
| IEC 61918            | NOTE Approved as EN IEC 61918            |

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cencenelec.eu](http://www.cencenelec.eu).

| <u>Publication</u>  | <u>Year</u> | <u>Title</u>   | <u>EN/HD</u>     | <u>Year</u> |
|---------------------|-------------|--|------------------|-------------|
| IEC 61158           | series      | Industrial communication networks -<br>Fieldbus specifications   | EN IEC 61158     | series      |
| IEC 61158-2         | 2023        | Industrial communication networks -<br>Fieldbus specifications - Part 2: Physical<br>layer specification and service definition  | EN IEC 61158-2   | 2023        |
| IEC 61784-1-6       | 2023        | Industrial networks - Profiles - Part 1-6:<br>Fieldbus profiles - Communication Profile<br>Family 6  | EN IEC 61784-1-6 | 2023        |
| IEC 61784-2-0       | 2023        | Industrial networks - Profiles - Part 2-0:<br>Additional real-time fieldbus profiles based<br>on ISO/IEC/IEEE 8802-3 - General<br>concepts and terminology                 | EN IEC 61784-2-0 | 2023        |
| IEC 61784-2-3       | 2023        | Industrial networks - Profiles - Part 2-3:<br>Additional real-time fieldbus profiles based<br>on ISO/IEC/IEEE 8802-3 - CPF 3   | EN IEC 61784-2-3 | 2023        |
| IEC 61784-5-3       | -           | Industrial communication networks -<br>Profiles - Part 5-3: Installation of fieldbuses<br>- Installation profiles for CPF 3  | EN IEC 61784-5-3 | -           |
| IEC 61784-5-6       | -           | Industrial communication networks -<br>Profiles - Part 5-6: Installation of fieldbuses<br>- Installation profiles for CPF 6  | EN IEC 61784-5-6 | -           |
| ISO/IEC/IEEE 8802-3 | -           | Telecommunications and exchange<br>between information technology systems -<br>Requirements for local and metropolitan<br>area networks - Part 3: Standard for<br>Ethernet | -                | -           |
| IEEE Std 802        | 2014        | IEEE Standard for Local and metropolitan<br>area networks: Overview and Architecture   | -                | -           |
| IEEE Std 802.1AB    | 2016        | IEEE Standard for Local and metropolitan<br>area networks: Station and Media Access<br>Control Connectivity Discovery  | -                | -           |

|                  |      |   |   |   |
|------------------|------|---|---|---|
| IEEE Std 802.1AS | 2020 | IEEE standard for Local and metropolitan area networks - Timing and Synchronization for Time-Sensitive Applications | - | - |
| IEEE Std 802.1Q  | 2018 | IEEE Standard for Local and metropolitan area networks - Bridges and Bridged Networks                               | - | - |
| IETF RFC 1157    | 1990 | Simple Network Management Protocol (SNMP)   | - | - |
| IETF RFC 1213    | 1991 | Management Information Base for Network-Management of TCP/IP-based Internets: MIB-II                                | - | - |
| IETF RFC 768     | 1980 | User Datagram Protocol  | - | - |
| IETF RFC 791     | 1981 | Internet Protocol   | - | - |
| IETF RFC 792     | 1981 | Internet Control Message Protocol   | - | - |
| IETF RFC 793     | 1981 | Transmission Control Protocol   | - | - |



# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Industrial networks – Profiles –  
Part 2-6: Additional real-time fieldbus profiles based on ISO/IEC/IEEE 8802-3 –  
CPF 6**

**Réseaux industriels – Profils –  
Partie 2-6: Profils de bus de terrain supplémentaires pour les réseaux en temps  
réel fondés sur l'ISO/IEC/IEEE 8802-3 – CPF 6**



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