



BSI Standards Publication

Industrial networks — Profiles

Part 2-20: Additional real-time fieldbus profiles
based on ISO/IEC/IEEE 8802-3 — CPF 20

National foreword

This British Standard is the UK implementation of EN IEC 61784-2-20:2023. It is identical to IEC 61784-2-20:2023. Together with BS EN IEC 61784-2-14:2023, BS EN IEC 61784-2-0:2023, BS EN IEC 61784-2-6:2023, BS EN IEC 61784-2-11:2023, BS EN IEC 61784-2-3:2023, BS EN IEC 61784-2-12:2023, BS EN IEC 61784-2-4:2023, BS EN IEC 61784-2-19:2023, BS EN IEC 61784-2-10:2023, BS EN IEC 61784-2-13:2023, BS EN IEC 61784-2-2:2023 and BS EN IEC 61784-2-15:2023, it partially supersedes BS EN IEC 61784-2:2019.

The UK participation in its preparation was entrusted to Technical Committee GEL/65/3, Industrial communications: process measurement and control, including fieldbus.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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English Version

Industrial networks - Profiles - Part 2-20: Additional real-time
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(IEC 61784-2-20:2023)

Réseaux industriels - Profils - Partie 2-20: Profils de bus de
terrain supplémentaires pour les réseaux en temps réel
fondés sur l'ISO/IEC/IEEE 8802-3 - CPF 20
(IEC 61784-2-20:2023)

Industrielle Kommunikationsnetze - Profile - Teil 2-20:
Zusätzliche Feldbusprofile für Echtzeitnetzwerke basierend
auf ISO/IEC/IEEE 8802-3 - Kommunikationsprofilfamilie
(CPF) 20
(IEC 61784-2-20:2023)

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European foreword

The text of document 65C/1209/FDIS, future edition 1 of IEC 61784-2-20, 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 61784-2-20:2023.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2024-03-09 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2026-06-09 document have to be withdrawn

This document partially supersedes EN IEC 61784-2:2019 and all of its amendments and corrigenda (if any).

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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 61158-2	NOTE Approved as EN IEC 61158-2
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.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61158	series	Industrial communication networks - Fieldbus specification	EN IEC 61158	series
IEC 61158-3-25	2019	Industrial communication networks - Fieldbus specifications - Part 3-25: Data-link layer service definition - Type X elements	EN IEC 61158-3-25	2019
IEC 61158-4-25	2019	Industrial communication networks - Fieldbus specifications - Part 4-25: Data-link layer protocol specification - Type 25 elements	EN IEC 61158-4-25	2019
IEC 61158-5-25	2019	Industrial communication networks - Fieldbus specifications - Part 5-25: Application layer service definition - Type 25 elements	EN IEC 61158-5-25	2019
IEC 61158-6-25	2019	Industrial communication networks - Fieldbus specifications - Part 6-25: Application layer protocol specification - Type 25 elements	EN IEC 61158-6-25	2019
IEC 61784-2-0	2023	Industrial networks - Profiles - Part 2-0: Additional real-time fieldbus profiles based on ISO/IEC/IEEE 8802-3 - General concepts and terminology	EN IEC 61784-2-0	2023
ISO/IEC/IEEE 8802-3	-	Telecommunications and exchange between information technology systems - Requirements for local and metropolitan area networks - Part 3: Standard for Ethernet	-	-
IEEE Std 802	2014	IEEE Standard for Local and Metropolitan Area Networks: Overview and Architecture	-	-
IEEE Std 802.1AB	2016	IEEE Standard for Local and metropolitan area networks: Station and Media Access Control Connectivity Discovery	-	-

EN IEC 61784-2-20:2023 (E)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
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 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	-	-

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**INDUSTRIAL NETWORKS –
PROFILES –****Part 2-20: Additional real-time fieldbus profiles
based on ISO/IEC/IEEE 8802-3 –
CPF 20****FOREWORD**

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NOTE Combinations of protocol types are specified in the IEC 61784-1 series and the IEC 61784-2 series.

IEC 61784-2-20 has been prepared by subcommittee 65C: Industrial networks, of IEC technical committee 65: Industrial-process measurement, control and automation. It is an International Standard.

This first edition, together with the other parts of the same series, cancels and replaces the fourth edition of IEC 61784-2 published in 2019. This first edition constitutes a technical revision.