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Environmental Engineering (EE); European telecommunication standard for equipment practice; Part 7: Engineering requirements for Subracks in harmonized racks and cabinets with extended features

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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**Environmental Engineering (EE);
European telecommunication standard
for equipment practice;
Part 7: Engineering requirements for
Subracks in harmonized racks and cabinets
with extended features**

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Foreword

This European Standard (EN) has been produced by ETSI Technical Committee Environmental Engineering (EE).

The present document is part 7 of a multi-part deliverable aimed at setting out, on a common basis, the engineering requirements for telecommunication practice, for housing equipment forming part of a public telecommunications network. ETSI EN 300 119-1 [i.1] is a general introduction and explains the terminology used. ETSI EN 300 119-2 [i.2] specifies the engineering requirements for racks and cabinets and ETSI EN 300 119-3 [i.3] specifies the engineering requirements for miscellaneous racks and cabinets. ETSI EN 300 119-5 [i.5] covers the preferred thermal management solutions for subracks, racks/cabinets and miscellaneous racks/cabinets installed indoors in restricted access locations, for the removal of heat dissipated by one or more subracks in a rack complying to the requirements of this multi-part standard. The present document specifies the engineering requirements for subracks mounted in harmonized racks and cabinets with extended features.

The present document applies to all telecommunications equipment forming part of the public telecommunications network.

The present document, ETSI EN 300 119-7, is defining extension to the existing parts of the standard to harmonize dimensions and to extend rack installation capabilities.

These extended features are:

- mounting bracket depth adjustment only on subrack level (as normally done in many other standardized equipment practices; see 19 inches)
- common position of mounting brackets for both 300 mm and 600 mm depth
- recessed subrack mounting plane compared to ETSI EN 300 119-3 [i.3] and ETSI EN 300 119-4 [i.4] to allow more room for cable management and better cable access from front/rear aisle
- design subrack mounting plane in a manner so that not only 600 mm deep rack is an earthquake proof design but also the 300 mm rack (600 mm: ~7 inches deep upright; 300 mm ~3,5 inches deep upright; commonality with EIA rack standard for SNBF)
- make ETSI mounting principle similar to SNBF (5 inches deep upright) which is used in USA telecommunication offices to gain more commonality for international markets
- define extra front side cabling space for accommodating optical and electrical I/O cables

Illustrative figures are contained in annex A.

The present document is part 7 of a multi-part deliverable. Full details of the entire series can be found in part 1 [i.1].

National transposition dates	
Date of adoption of this EN:	19 February 2015
Date of latest announcement of this EN (doa):	31 May 2015
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	30 November 2015
Date of withdrawal of any conflicting National Standard (dow):	30 November 2015

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**may not**", "**need**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

"**must**" and "**must not**" are **NOT** allowed in ETSI deliverables except when used in direct citation.

1 Scope

The present document details requirements for subracks for use in harmonized racks/cabinets, as described in ETSI EN 300 119-6 [i.6]. The subrack will normally be supplied as a fully assembled structure, unequipped, partially equipped or fully equipped with plug-in units, etc.

2 References

2.1 Normative references

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

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The following referenced documents are necessary for the application of the present document.

- [1] IEC 60917-2-2: "Modular order for the development of mechanical structures for electronic equipment practices - Part 2: Sectional specification - Interface co-ordination dimensions for the 25 mm equipment practice - Section 2: Detail specification - Dimensions for subracks, chassis, backplanes, front panels and plug-in units".

2.2 Informative references

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The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] ETSI EN 300 119-1: "Environmental Engineering (EE); European telecommunication standard for equipment practice; Part 1: Introduction and terminology".
- [i.2] ETSI EN 300 119-2: "Environmental Engineering (EE); European telecommunication standard for equipment practice; Part 2: Engineering requirements for racks and cabinets".
- [i.3] ETSI EN 300 119-3: "Environmental Engineering (EE); European telecommunication standard for equipment practice; Part 3: Engineering requirements for miscellaneous racks and cabinets".
- [i.4] ETSI EN 300 119-4: "Environmental Engineering (EE); European telecommunication standard for equipment practice; Part 4: Engineering requirements for subracks in miscellaneous racks and cabinets".
- [i.5] ETSI EN 300 119-5: "Environmental Engineering (EE); European telecommunication standard for equipment practice; Part 5: Thermal management".
- [i.6] ETSI EN 300 119-6: "Environmental Engineering (EE); European telecommunication standard for equipment practice; Part 6: Engineering requirements for harmonized racks and cabinets with extended features".

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