# ISO/IEEE 11073-30200:2004-12 (E)

**Health informatics — Point-of-caremedical device communication —**
**Part 30200: Transport profile — Cable connected**

## CONTENTS


1. Overview ..... 1

1.1 Scope ..... 2
1.2 Purpose ..... 2
1.3 Standards compatibility ..... 2
1.4 Audience ..... 2

2. References ..... 2

3. Definitions, acronyms, and abbreviations ..... 4

3.1 Definitions ..... 4
3.2 Acronyms and abbreviations ..... 6

4. Goals for this standard ..... 7

5. Architecture ..... 7

5.1 Topology ..... 7
5.2 Layering ..... 9

6. Physical layer ..... 9

7. Data link layer ..... 10

7.1 IrLAP frame ..... 10
7.2 Procedure model ..... 11
7.3 Minimum data link layer requirements ..... 12

8. Network layer ..... 15

8.1 Discovery information ..... 15
8.2 Information access requirements ..... 17
8.3 Minimum IrLMP multiplexer requirements ..... 19

9. Transport layer ..... 20

9.1 Maximum transfer unit ..... 20
9.2 Transport service requirements ..... 21
9.3 MDDL service ..... 22

10. Time synchronization ..... 22

11. Labeling and conformance requirements ..... 23

11.1 Labeling requirements ..... 23
11.2 Conformance requirements ..... 23

Annex A (normative) Physical layer ..... 24

Annex B (informative) Maximum cable length ..... 35

Annex C (informative) Modular connectors ..... 37

Annex D (informative) RJ-45 to DB-9 modular adapters ..... 39
Annex E (informative) Detailed rationale for pin assignments ..... 40
Annex F (informative) 10BASE-T ..... 41
Annex G (informative) Power delivery considerations ..... 42
Annex H (informative) Nonisolated BCC and DCC design examples ..... 43
Annex I (informative) Isolated BCC design example ..... 45
Annes J (informative) Optical isolator design example ..... 47
Annex K (informative) Marking guidelines ..... 49
Annex L (informative) IrDA message examples ..... 52
Annex M (normative) IrDA profile ..... 58
Annex N (informative) Time synchronization using SNTP ..... 61
Annex O (informative) Bibliography ..... 69