

Fabric RFID Wristbands

Dimensions, construction & electronic options

The published WB505 fabric format uses a 350 × 15 mm strap. Choose the artwork method and closure below; these are configuration references, with the finished chip, tag outline and print layout identified on the order.

Specification	Published reference
Reference family	WB505 cloth wristband
Strap size	350 × 15 mm laid-flat reference; custom dimensions are listed as an option
Materials	Polyester strap with a separate PVC RFID tag
PVC tag reference	35 × 25 mm in the event-wristband listing; tag outline is selected separately from the strap
Artwork	Woven design: up to 8 yarn colors. Printed design: heat-sublimation graphics
Closure options	One-way plastic slider or reusable round bead
RFID options	125 kHz LF or 13.56 MHz HF; the installed chip and reader protocol are selected together
Packing reference	100 pieces per bag; 2,000 pieces per carton in the WB505 listing

Three construction choices

Configuration	Artwork / closure
Printed strap · one-way slider 350 × 15 mm	Heat-sublimation graphics for multicolor artwork and gradients One-way plastic slider
Woven strap · one-way slider 350 × 15 mm	Design woven into the strap using up to 8 yarn colors One-way plastic slider
Fabric strap · reusable bead 350 × 15 mm	Select printed or woven artwork Reusable round bead

Woven strap with separate tag and slider



Printed fabric and a QR tag face



Photographs illustrate the assembly and artwork; dimensions come from the published supplier references.

Chip-level selection references

The chip, its data format and the installed reader must match. Chip memory and radio specifications do not establish a finished wristband read distance or environmental rating.

Chip	Interface / memory	Selection notes
NTAG213 / NTAG215 / NTAG216	13.56 MHz · ISO/IEC 14443 A · NFC Type 2 144 / 504 / 888 bytes user memory	32-bit password protection; manufacturer-programmed 7-byte UID NDEF links and phone interactions. NDEF formatting also consumes memory.
MIFARE Ultralight EV1	13.56 MHz · ISO/IEC 14443 A 48 or 128 bytes user memory, depending on variant	32-bit password protection; three 24-bit counters Ticketing workflows designed for the selected EV1 variant. Password protection is not the 3DES mechanism of Ultralight C.
MIFARE Ultralight C	13.56 MHz · ISO/IEC 14443 A 144 bytes user data memory	3DES authentication Existing systems using Ultralight C commands and keys. Its 192-byte total EEPROM is not 192 bytes of user data.
EM4200	LF · 125 kHz credential systems Factory-programmed read-only identifier	Identifier and encoding format selected for the LF reader A listed LF option for compatible identification readers. It does not carry a writable NFC web link.

Sources & scope

- Custom Fabric Event Wristbands - Proud Tek. Published strap, PVC tag and closure specifications
- WB505 Custom Cloth Wristbands - Proud Tek. WB505 specifications and woven / printed artwork methods
- NTAG213 / NTAG215 / NTAG216 datasheet - NXP Semiconductors. Rev. 3.2, sections 1.3 and 2.1
- MIFARE Ultralight EV1 datasheet - NXP Semiconductors. Rev. 3.3, sections 1.4, 2.1 and 8.6
- MIFARE Ultralight C datasheet - NXP Semiconductors. Rev. 3.5, sections 2.2, 7.5.5 and 7.5.9
- EM4200 datasheet - EM Microelectronic. Read-only low-frequency identification IC

Published references support comparison. The quotation and approved order drawing identify the supplied construction, chip, marking, size tolerances and production schedule. Current availability and any environmental test conditions are configuration-specific.

[View product photographs, references and quote options →](#)