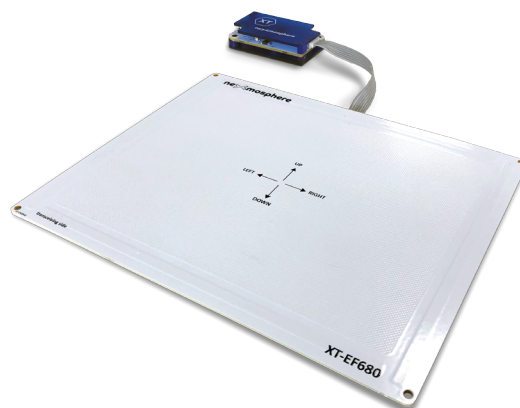# XT-EF680 AIR GESTURE SENSOR

EF-SERIES

The Nexmosphere XT EF-Series offers sensors in various sizes which are able to detect touchless input from the user. The Air-Button feature detects whenever a person's hand either enters or leaves the sensor's detection field, sending both events as a status message to your Digital Signage player, while also being able to register and respond to physical Touch input. The AirGesture feature registers and communicates left, right, up, and -down air swipes. All the inputs from these sensors can be used to trigger events on your Digital Signage installations, for example toggling through menu options or offering product, or -service information without having to touch the screen, the merchandise, or any physical buttons.

XT-EF680

The XT-EF680 features AirButton, AirGesture and AirWheel detection and has a detection area of 180 x 140mm.

Features
• AirButton detection for touchless user input
• AirGesture detection for touchless navigation
• AirWheel detection for touchless parameter control
• Adjustable sensitivity

X-talk
The XT EF-Series sensors can easily be connected to any of the Nexmosphere Xperience controllers using the X-talk interface. All settings of the EF sensor are programmable on the Controller, enabling a seamless integration in your application.
• Plug and smile interface
• Compatible with any Nexmosphere Xperience controller
• Powered by and configurable with Nexmosphere Xperience controller

AirButton, AirGesture and AirWheel detection
• AirButton detects when a person's hand is placed above the sensor (AirButton) or when a hand touches the sensor's surface or its overlaying panel (Touch).
• AirGesture detects left, right, up, and -down air swipes, facilitating touchless navigation for digital content.
• AirWheel detects left and right circular movements, enabling touchless control of parameters such as audio volume
• Multiple sensitivity settings are available to fine-tune the detection range of the sensor to your application

Benefits
• Very thin form factor for easy integration
• Capacitive sensing technology allows for placement behind or below any non-metal surface
• Various sizes available to match the design of your applications
• Auto-calibration and auto-start for highly reliable applications (24/7)
• Status LED indicating trigger detection

XT-EF680 AIRGESTURE SENSOR

Detection range
- AirButton   150-170 mm*
- AirGesture: 100-120 mm*

these are the maximum detection distances. The overlaying material and applied senstivity settings determine the operational detection range in practice.

Electrical Installation specifications
- In order for the sensor to operate responsive and stable, it is required to **earth-ground** the system.*

Nexmosphere offers earth-grounded power supplies and USB split-cables

Mounting specifications
- The sensor can be installed behind or below any non-metal overlaying top panel.
- Top panel thickness: 1- 22mm
- Minimum spacing between multiple sensors: 100mm

Thermal specifications
Operating temperature: +10'C...+40'C/ +50'F ... +104'F
Storage temperature: -20'C...+50'C/ -4'F ... +122'F

Electrical specifications
- Operating voltage: 5V DC (via X-talk interface)
- Power consumption: 60mA
- Operation frequency: 44 - 115Khz

Miscellaneous
- Mounting holes for easy fixation
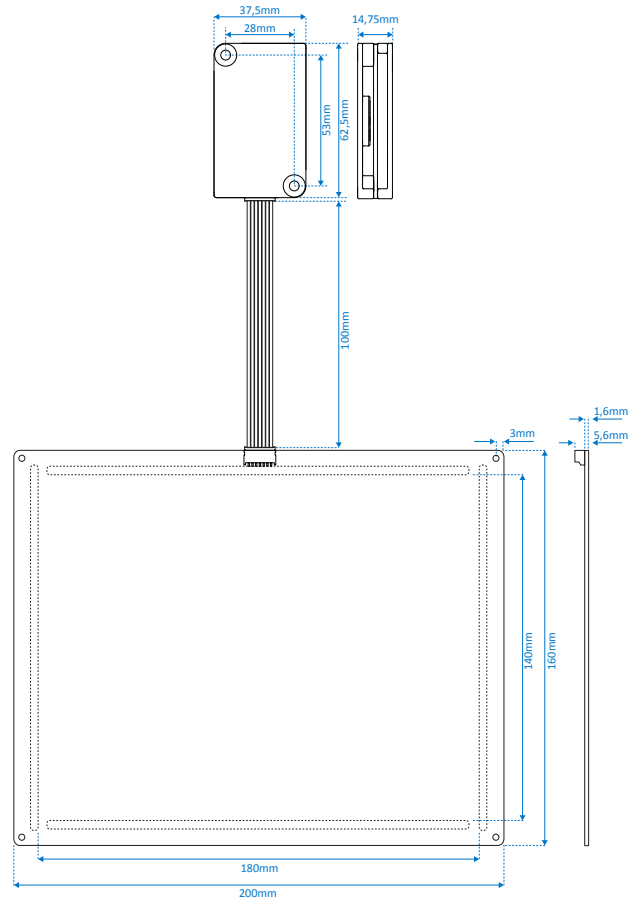- 1-year warranty (optional 3-year extended warranty available)

Packaging
Items per carton   1, 10 or 50 pcs

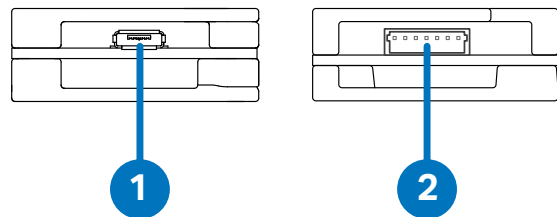## Standards and Certifications

CE RoHS compliant

Mechanical dimensions
Electrode LxWxH: 200 x 160 x 1,6 / 5,6 mm
Detection area LxW: 180 x 140 mm
Driver LxWxH: 62,5 x 37,5 x 14,8 mm
Screw fixation: Electrode: 194 x 154 mm
                       Driver: 53 x 28 mm

Hardware Interfaces
1. X-talk connector (compatible with CAX-M6W cables)
2. EF-electrode connector

Ordering information

Product ID	Description	Quantity
XT-EF680	X-Touch, Air gesture sensor, 200x160mm electrode	1 pc