

Product catalog

MOBILE HMI DEVICES

V3.00

ROBOTICS

AGV

AUTOMATION





Due to the increasing risk of cyberattacks, the focus is on data security and secure operating systems, especially in machine operation. With the M2Smart® HMI, ACD Elektronik has succeeded in developing a mobile and wireless device for secure machine operation that meets all security requirements without compromising on flexibility, mobility and operability.

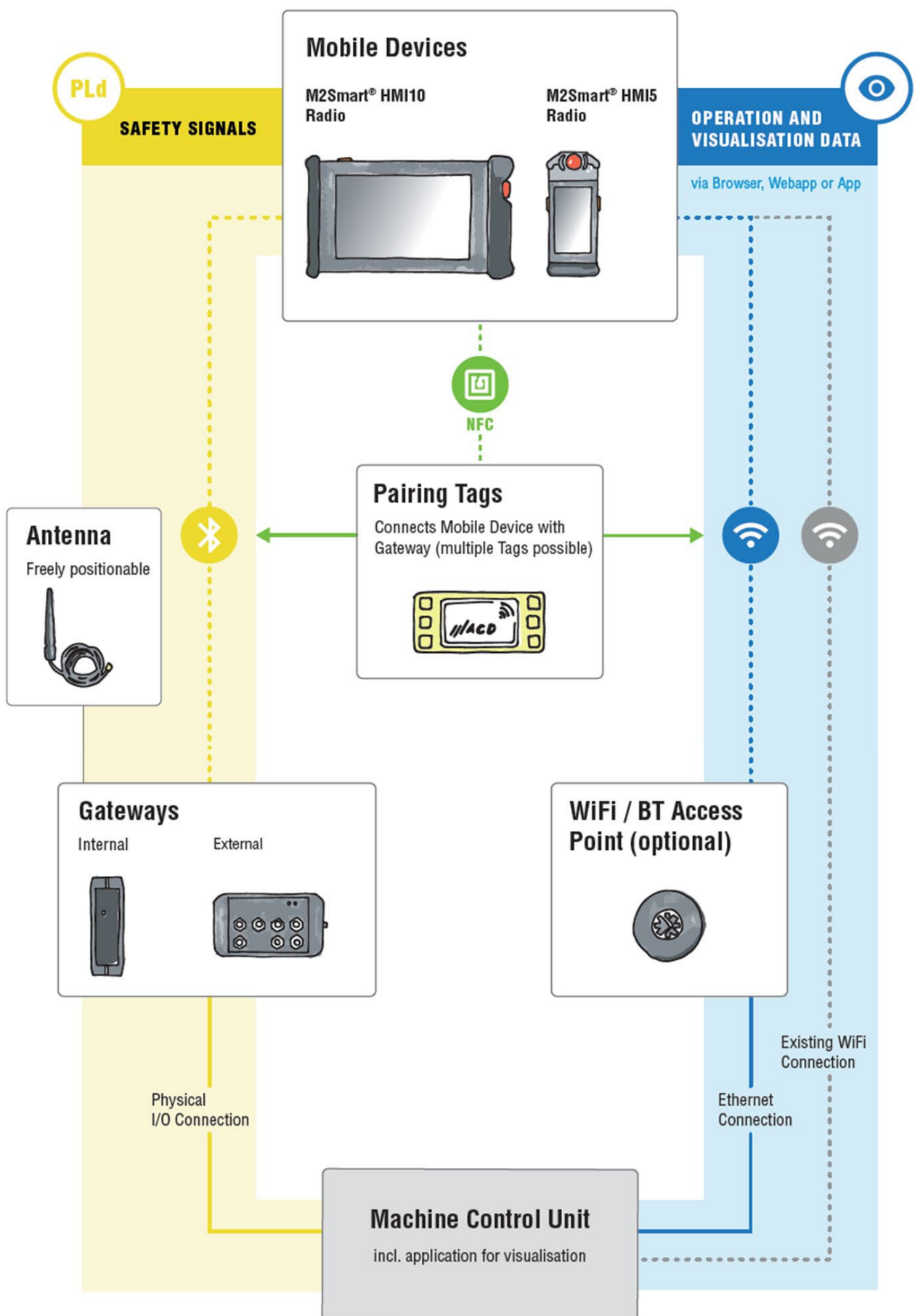


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Further information, such as the operating and project planning manuals, can be found on our homepage:
<https://www.acd-gruppe.de/en/company/downloads/>

Our sales department will also be happy to help you on +49 7392 708-499.





02

Wireless HMI Devices M2Smart® HMI10 Radio

TECHNICAL DATA

Display

Type:	IPS TFT color display
Size:	10.1" (16:10)
Resolution:	1280 x 800 pixels
Brightness:	400 cd/m²
Touch screen:	Capacitive, Anti-glare hard coating (3H)
Backlight:	LED backlight
Display:	Three status LEDs

Safety elements

Enabling switch/ Emergency stop button:	Performance level PLd according to ISO 13849 achievable
Emergency stop B10d:	250,000
Enabling switch B10d:	2,000,000 (24 V AC/DC, 100 mA) 100,000 (rated load)

Interfaces

Communication:	Visualization and operating data: WiFi according to IEEE802.11a/b/g/n/ ac/d/h/e/i/r/k/w/v (2.4 GHz/5 GHz) incl. BT-compatible short-range radio 5.0 Safety data: Black channel method (range in a typical industrial environment approx. 30 - 40 m)
NFC reader:	For pairing M2Smart® HMI10 and M2Smart® Gateway i or M2Smart® Gateway o
NFC functions:	Reader/Writer mode, Peer to Peer mode, Card emulation
NFC protocols:	ISO14443A/B, ISO15693, MIFARE/ DESFire, Sony FeliCa
Loudspeaker:	Integrated loudspeaker
USB:	USB-C for data transfer
Camera (optional):	5 MP autofocus camera with illumination
Distance control:	Individually configurable effective range restriction

TECHNICAL DATA



Control elements

Emergency stop button:	Illuminated emergency stop button, 2-channel, 2 NC contacts (NC)
Enabling switch (optional):	Three-stage enabling switch, 2-channel, 2 NO contacts (NO), suitable for right- and left-handed users
Buttons:	On/off button, one side button (freely configurable)

Power supply

Power supply:	Quick-change battery, Li-Ion or 15 V DC/2.4 A via DC socket
Battery capacity:	22.8 Wh (6,000 mAh/3.8 V), Battery change during operation (ca. ten seconds buffering)

Dimensions, Weight

Dimensions:	333 x 196 x 93 mm (L x W x D), with enabling switch
Weight:	Ca. 1700 g, with enabling switch
Dimensions:	333 x 196 x 57 mm (L x W x D), without enabling switch
Weight:	Ca. 1500 g, without enabling switch

Core

CPU:	NXP® i.MX8M Mini, 4x Cortex A53 (4x 1.8 GHz) and 1x Cortex M4 (1x 400 MHz)
Memory:	16 GB Flash, 4 GB RAM Optional 32 GB Flash available

General information

Operating system:	Android™** Industrial+
Housing:	ABS/PC
Protection class:	IP54
Operating temperature:	-20 °C to 50 °C
Storage temperature:	-20 °C to 60 °C
Charging temperature:	5 °C to 35 °C
Rel. humidity:	5 % to 90 %, non-condensing (M2Zustimm10: 45 % to 85 %, non-condensing)
Permissible air pressure:	Up to 2,000 m above sea level (operation, storage, transportation)
Optional:	Various modules such as handwheels, additional buttons on request
Certification:	CE, TÜV
System components:	M2Smart® Gateway i, M2Smart® Gateway o, M2Smart® HMI Access Point (optional)

Article numbers

8051-3159-000:	M2Smart® HMI10 r / Enabling switch
8051-3174-000:	M2Smart® HMI10 r
8051-3186-000:	M2Smart® HMI10 r / Enabling switch (silicone-free)

* Registered trademark - NXP

** Registered trademark - Android™ - Android is a trademark of Google LLC
Subject to technical changes

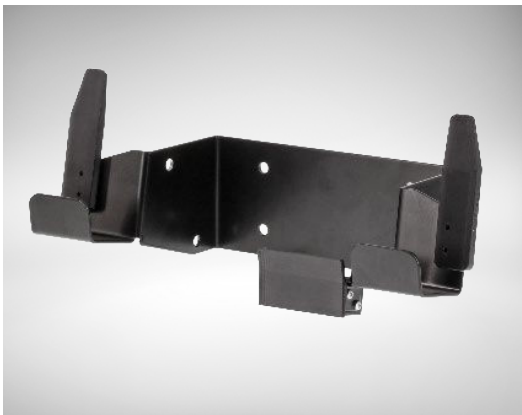
ACCESSORIES



Connection set– 36 W (EU)

Medical power supply unit for Active Mount and M2Smart® HMI10

- Article number: 8051-3012-000
- Power supply unit: 100 - 240 V AC - 15 V / 36 W - 2.4 A
- AC power cable: Type F
- Length mains cable: 2.0 m



M2Smart® HMI10 r – Active Mount

Active wall mount with charging option

- Article number: 8051-2947-000
- Operating temperature: -20 °C to 50 °C
- Device dimensions: 124 x 270 x 112 mm (L x W x H)
- Weight: 530 g
- Power supply: 15 - 24 V DC, 36 W
- Interfaces: DC socket
- Certification: CE



DC connection cable

DC connection cable for Active Mount

- Article number: 8001-4505-000
- DC connection cable: 15 V – 24 V
- Cable length: 5.0 m
- Interfaces: Open cable end



M2Smart® HMI10 r – Passive Mount SE

Passive wall mount without charging option

- Article number: 8051-3014-000
- Operating temperature: -20 °C to 50 °C
- Device dimensions: 124 x 270 x 112 mm (L x W x H)
- Weight: 500 g
- Special feature: Upgrade to Active Mount possible

ACCESSORIES



Contact box for M2Smart® HMI10 r – Mount

Contact box incl. charging contacts for upgrade the Passive Mount SE

- Article number: 8051-3018-000
- Power supply: 15 - 24 V DC, 36 W
- Interfaces: DC socket
- Mounting: Mounting on Passive Mount using three screws



DS2Battery Charging box (2-fold)

For charging two replacement batteries

- Article number: 8051-2738-000
- Operating temperature: 0 °C to 40 °C
- Device dimensions: 138 x 171 x 61 mm (L x W x H)
- Weight: 440 g
- Power supply: 15 V DC, 36 W
- Interfaces: DC socket
- Certification: CE



Connection set – 36 W (EU, CH, NO, IS, LI)

Connection set for the DS2Battery Charging box (2-fold)

- Article number: 8051-2308-000
- Power supply unit: 100 - 240 V AC - 15 V / 36 W
- AC power cable: Type C
- Length mains cable: 1.5 m



Replacement battery Plus

Replacement battery for the M2Smart® HMI10 Radio

- Article number: 8001-0777-000
- Power supply: 22.8 Wh (3.8 V/6,000 mAh)
- Battery type: Li-Ion
- Special feature: Change during operation

ACCESSORIES



Cover battery compartment

Cover for closing the second battery compartment

- Article number: 8001-4403-000
- Special feature: Alternatively, a second spare battery can be carried



Capacitive touch pen

Capacitive touch pen for easy operation of the M2Smart® HMI10 Radio

- Artikelnummer: 3330-0216-000
- Length: Ca. 11 cm
- Diameter: Ca. 0.6 cm



M2Smart® display protection film 10.1 Inch / low reflection

Display protection film with anti-reflective coating

- Article number: 8051-2811-000
- Material: Extremely robust polymer composite
- Technology: Anti fingerprint
- Surface: > 3H surface hardness



M2Smart® display protection film 10.1 Inch

AirGlass display protection film pre-installed on the device

- Article number: 8051-2812-000
- Technology: Anti fingerprint
- Surface: 9H scratch resistance
- Impact resistance: IK06



02

Wireless HMI Devices M2Smart® HMI5 Radio

TECHNICAL DATA

Display

Type:	TFT color display
Size:	5" (16:9)
Resolution:	1280 x 720 pixels
Brightness:	400 cd/m ²
Touch screen:	Capacitive, surface hardness 7H
Backlight:	LED backlight
Display:	Three status LEDs

Safety elements

Enabling switch/ Emergency stop button:	Performance level PLd according to ISO 13849 achievable
Emergency stop B10d:	250,000
Enabling switch B10d:	2,000,000 (24 V AC/DC, 100 mA) 100,000 (rated load)

Interfaces

Communication:	Visualization and operating data: WiFi according to IEEE802.11a/b/g/n/ ac/d/h/e/i/r/k/w/v (2.4 GHz/5 GHz) incl. BT-compatible short-range radio 5.0 Safety data: Black channel method (range in a typical industrial environment approx. 30 - 40 m)
NFC reader:	For pairing M2Smart® HMI5 and M2Smart® Gateway i or M2Smart® Gateway o
NFC functions:	Reader/Writer mode, Peer to Peer mode, Card emulation
NFC protocols:	ISO14443A/B, ISO15693, MIFARE/ DESFire, Sony FeliCa
Loudspeaker:	Integrated loudspeaker
Distance control:	Individually configurable effective range restriction

TECHNICAL DATA



Control elements

Emergency stop button:	Illuminated emergency stop button, 2-channel, 2 NC contacts (NC)
Enabling switch:	Three-stage enabling switch, 2-channel, 2 NO contacts (NO)
Buttons:	On/off button, two side buttons (freely configurable)

Power supply

Power supply:	Quick-change battery, Li-Ion
Battery capacity:	22.8 Wh (6,000 mAh/3.8 V), Battery change during operation (ca. eight seconds buffering)

Dimensions, Weight

Dimensions:	207 x 87 x 61 mm (L x W x D)
Weight:	Ca. 560 g

Core

CPU:	NXP® i.MX8M Mini, 4x Cortex A53 (4x 1.8 GHz) and 1x Cortex M4 (1x 400 MHz)
Memory:	16 GB Flash, 2 GB RAM Optionally available with larger memory

General information

Operating system:	Android™** Industrial+
Housing:	ABS/PC
Protection class:	IP65
Operating temperature:	-20 °C to 50 °C
Storage temperature:	-20 °C to 60 °C
Charging temperature:	5 °C to 35 °C
Rel. humidity:	5 % to 90 %, non-condensing (M2NotHalt5 module: 45 % to 85 %, non-condensing)
Permissible air pressure:	Up to 2,000 m above sea level (operation, storage, transportation)
Optional:	Various modules such as handwheels, additional buttons on request
Certification:	CE, TÜV
System components:	M2Smart® Gateway i, M2Smart® Gateway o, M2Smart® HMI Access Point (optional)

Article numbers

8051-3077-000:	M2Smart® HMI5 r incl. module with emergency stop button and enabling switch
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* Registered trademark - NXP

** Registered trademark - Android™ - Android is a trademark of Google LLC
Subject to technical changes

ACCESSORIES



DS2mart® HMI5 Charging box

For charging the M2Smart® HMI5, as well as charging a replacement battery

- Article number: 8051-3075-000
- Operating temperature: 0 °C to 40 °C
- Device dimensions: 138 x 200 x 78 mm (L x W x H)
- Weight: 515 g
- Power supply: 15 - 24 V DC, 36 W
- Interfaces: DC socket
- Certification: CE



Connection set – 36 W (EU, CH, NO, IS, LI)

Medical power supply unit for DS2Smart® HMI5 Charging box

- Article number: 8051-2838-000
- Power supply unit: 80 - 264 V AC - 15 V / 36 W
- Connection: DC plug adapter
- AC power cable: Typ C
- Length mains cable: 2.0 m



DS2Battery Charging box (2-fold)

For charging two replacement batteries

- Article number: 8051-2738-000
- Operating temperature: 0 °C to 40 °C
- Device dimensions: 138 x 171 x 61 mm (L x W x H)
- Weight: 440 g
- Power supply: 15 V DC, 36 W
- Interfaces: DC socket
- Certification: CE



Connection set – 36 W (EU, CH, NO, IS, LI)

Connection set for the DS2Battery Charging box (2-fold)

- Article number: 8051-2308-000
- Power supply unit: 100 - 240 V AC - 15 V / 36 W
- AC power cable: Type C
- Length mains cable: 1.5 m

ACCESSORIES



Replacement battery Plus

Replacement battery for the M2Smart® HMI5 Radio

- Article number: 8001-0777-000
- Power supply: 22.8 Wh (3.8 V/6,000 mAh)
- Battery type: Li-Ion
- Special feature: Change during operation



Capacitive touch pen

Capacitive touch pen for easy operation of the M2Smart® HMI5 Radio

- Article number: 3330-0216-000
- Length: Ca. 11 cm
- Diameter: Ca. 0.6 cm



M2Smart® display protection film 5 Inch / low reflection

Display protection film with anti-reflective coating

- Article number: 8051-3094-000
- Material: Extremely robust polymer composite
- Technology: Anti fingerprint
- Surface: > 3H surface hardness



M2Smart® display protection film 5 Inch

AirGlass display protection film

- Article number: 8051-3095-000
- Technology: Anti fingerprint
- Surface: 9H scratch resistance
- Impact resistance: IK06



TECHNICAL DATA

Interfaces

Safe outputs:	Two digital outputs for emergency stop function Two digital outputs for enabling function Two digital outputs for displaying the connection status
Digital outputs:	One digital output for coupling indication via light signal Two digital outputs individually controllable
Digital inputs:	One digital input for reset One digital input for password reset
NFC transponder:	External NFC transponder for pairing the M2Smart® HMI5 or M2Smart® HMI10 and M2Smart® Gateway i, multiple NFC transponders possible
Antennas:	Antenna connection for screw antennas, optional use of antenna extension cables for use in the control cabinet possible
Communication:	Safety data via black channel method (range in a typical industrial environment approx. 30 - 40 m), configurable error response time

Display

Status indicator:	Two status LEDs (power/radio connection)
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Dimensions, Weight

Dimension:	47 x 145 x 137 mm (L x W x D)
Weight:	320 g

General information

Mounting:	Top-hat rail mounting within the control cabinet
Power supply:	24 V DC (+/- 15 %), max 100 mA
Housing:	PC/PA
Protection class:	IP20
Operating temperature:	0 °C to 60 °C
Storage temperature:	-20 °C to 60 °C
Rel. humidity:	5 % to 95 %, non-condensing
Permissible air pressure:	Up to 2,000 m above sea level (operation, storage, transportation)
Certification:	CE, TÜV

Article numbers

8051-2815-000:	M2Smart® Gateway i (IP20)
8051-3026-000:	M2Smart® Gateway i (IP20) + M2Smart® HMI Access Point

Subject to technical changes



TECHNICAL DATA

Interfaces

Safe outputs:	Two digital outputs for emergency stop function Two digital outputs for enabling function Two digital outputs for displaying the connection status
Digital outputs:	One digital output for coupling indication via light signal Two digital outputs individually controllable
Digital inputs:	One digital input for reset One digital input for password reset
NFC transponder:	Internal NFC transponder and additional separate NFC transponder for pairing the M2Smart® HMI5 or M2Smart® HMI10 and M2Smart® Gateway o, several remote NFC transponders possible
Antennas:	Antenna connection for screw antennas, optional use of antenna extension cables
Communication:	Safety data via black channel method (range in a typical industrial environment approx. 30 - 40 m), configurable error response time

Display

Status indicator:	Two status LEDs (power/radio connection)
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Dimensions, Weight

Dimension:	160 x 90 x 65 mm (L x W x D)
Weight:	417 g

General information

Mounting:	Wall mounting outside the control cabinet
Power supply:	24 V DC (+/- 15 %), max 100 mA
Housing:	ASA/PC
Protection class:	IP65
Operating temperature:	-20 °C to 50 °C
Storage temperature:	-20 °C to 60 °C
Rel. humidity:	5 % bis 95 %, non-condensing
Permissible air pressure:	Up to 2,000 m above sea level (operation, storage, transportation)
Certification:	CE, TÜV

Article numbers

8051-2837-000:	M2Smart® Gateway o (IP65)
8051-3023-000:	M2Smart® Gateway o (IP65) + M2Smart® HMI Access Point

Subject to technical changes

ACCESSORIES



Connection cable for rod antenna / 1 Meter

Extension cable for rod antenna

- Article number: 6160-0019-000
- Length: Extension cable 1 m
- Cable: RG58 coaxial cable with low attenuation
- Interfaces: RP-SMA male <--> RP-SMA female



Connection cable for rod antenna / 2 Meters

Extension cable for rod antenna

- Article number: 6160-0020-000
- Length: Extension cable 2 m
- Cable: RG58 coaxial cable with low attenuation
- Interfaces: RP-SMA male <--> RP-SMA female



Connection cable for rod antenna / 5 Meters

Extension cable for rod antenna

- Article number: 6160-0021-000
- Length: Extension cable 5 m
- Cable: RG58 coaxial cable with low attenuation
- Interfaces: RP-SMA male <--> RP-SMA female



Connection cable for rod antenna / 10 Meters

Extension cable for rod antenna

- Article number: 6160-0022-000
- Length: Extension cable 10 m
- Cable: RG58 coaxial cable with low attenuation
- Interfaces: RP-SMA male <--> RP-SMA female

ACCESSORIES



NFC transponder external

External NFC transponder for remote mounting

- Article number: 8051-3078-000
- NFC transponder: For pairing with M2Smart® Gateway i or M2Smart® Gateway o
- Special feature: On Metal Tag,
Customer-specific memory area,
Use of several remote NFC transponders



TECHNICAL DATA

Interfaces

Connections:	RJ45, 3-pin screw connection
Communication:	BT-compatible short-range radio V2.1, WiFi
Operating mode:	Access Point
Pairing:	The M2Smart® HMI Access Point is linked to the corresponding M2Smart® Gateway i or M2Smart® Gateway o thanks to a pre-configuration, so pairing using an NFC transponder is implemented in the same step as pairing the M2Smart® Gateway i or M2Smart® Gateway o

General information

Power supply:	Via Ethernet (PoE) or 3-pin plug
Power supply via Ethernet (PoE):	37 - 57 V
Power supply via 3-pin plug:	19 - 36 V, 1.7 W
Housing:	Plastic
Protection class:	IP66, IP67
Operating temperature:	-40 °C to 65 °C
Storage temperature:	-40 °C to 85 °C
Certification:	CE, UL, ATEX, FCC, IC

Dimensions, Weight

Dimensions:	68 x 68 x 75 mm (L x W x D), Height above mounting surface: 42 mm
Weight:	85 g

Further details

Further details and more information can be found on the following homepage:

<https://www.hms-networks.com/p/awb2030-b-anybus-wireless-bolt-ethernet-rj45-poe-black-version>

Article numbers

8051-3016-000:	M2Smart® HMI Access Point
8051-3026-000:	M2Smart® Gateway i (IP20) + M2Smart® HMI Access Point
8051-3023-000:	M2Smart® Gateway o (IP65) + M2Smart® HMI Access Point

Subject to technical changes



04

Wired HMI Devices M2Smart® HMI10TE Wired LE

TECHNICAL DATA

Display

Type:	IPS TFT color display
Size:	10.1" (16:10)
Resolution:	1280 x 800 pixels
Brightness:	400 cd/m ²
Touch screen:	Capacitive, Anti-glare hard coating (3H)
Backlight:	LED backlight
Display:	Three status LEDs
Display protection film:	AirGlass Ultra-Thin, 9H scratch resistance, impact resistance IK06

Interfaces

Communication:	Visualization and operating data: Wired (hybrid cable) Safety data: Wired (emergency stop and enabling function, hybrid cable)
Connection cable:	Length: 5 m, other lengths upon request
Outer sheath:	PUR
Loudspeaker:	Integrated loudspeaker
USB:	Type C, USB 3.1 Gen 1, with DisplayPort Alt Mode in accordance with VESA DisplayPort V1.4

Safety elements

Enabling switch/ Emergency stop button:	Performance level PLe according to ISO 13849 achievable
Emergency stop B10d:	250,000
Enabling switch B10d:	100,000

TECHNICAL DATA



Control elements

Emergency stop button:	Emergency stop button, 2-channel, 2 NC contacts (NC)
Enabling switch (optional):	Three-stage enabling switch, 2-channel, 2 NO contacts (NO), suitable for right- and left-handed users
Buttons:	On/off button, one side button (freely configurable)

Power supply

Power supply:	15 - 24 V DC (+/- 15 %), 20 W
Battery (optional):	Detachable battery, Li-Ion, 22.8 Wh (6,000 mAh/3.8 V),

Dimensions, Weight

Dimensions:	333 x 196 x 96 mm (L x W x D) with enabling switch
Weight:	Ca. 1520 g with enabling switch, without cable and detachable battery

Core

CPU:	Qualcomm®* QCS5430, 2x 2.1 GHz and 4x 1.8 GHz
Memory:	64 GB Flash, 4 GB RAM Optional 128 GB Flash or 8 GB RAM available

General information

Operating system:	Android™** Industrial+
Housing:	ABS/PC
Protection class:	IP65
Operating temperature:	-20 °C to 50 °C
Storage temperature:	-20 °C to 60 °C
Optional:	Various modules such as handwheels, additional buttons on request
Certification:	CE

Article numbers

8051-3189-000 :	M2Smart® HMI10TE le / Enabling switch
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* Registered trademark - Qualcomm® - Qualcomm is a trademark of Qualcomm Incorporated

** Registered trademark - Android™ - Android is a trademark of Google LLC
Subject to technical changes



04

Wired HMI Devices M2Smart® HMI10 Wired

TECHNICAL DATA

Display

Type:	IPS TFT color display
Size:	10.1" (16:10)
Resolution:	1280 x 800 pixels
Brightness:	400 cd/m ²
Touch screen:	Capacitive, Anti-glare hard coating (3H)
Backlight:	LED backlight
Display:	Three status LEDs

Safety elements

Enabling switch/ Emergency stop button:	Performance level PLe according to ISO 13849 achievable
Emergency stop B10d:	250,000
Enabling switch B10d:	2,000,000 (24 V AC/DC, 100 mA) 100,000 (rated load)

Interfaces

Communication:	Visualization and operating data: WiFi according to IEEE802.11a/b/g/n/ac/d/ h/e/i/r/k/w/v (2.4 GHz/5 GHz) incl. BT-compatible short-range radio 5.0
	Safety data: Wired (emergency stop and enabling function)
Connection cable:	Length: 5 m or 10 m
Outer sheath:	PUR (for version with enabling switch), TPE (for version without enabling switch)
NFC reader (optional):	Reader/Writer mode, Peer to Peer mode, Card emulation
NFC protocols:	ISO14443A/B, ISO15693, MIFARE/DESFire, Sony FeliCa
Loudspeaker:	Integrated loudspeaker
USB:	USB-C for data transfer
Camera (optional):	5 MP autofocus camera with illumination

TECHNICAL DATA



Control elements

Emergency stop button:	Emergency stop button, 2-channel, 2 NC contacts (NC)
Enabling switch (optional):	Three-stage enabling switch, 2-channel, 2 NO contacts (NO), suitable for right- and left-handed users
Buttons:	On/off button, one side button (freely configurable)

Power supply

Power supply:	15 - 24 V DC (+/- 15 %), 20 W
Battery (optional):	Quick-change battery, Li-Ion, 22.8 Wh (6,000 mAh/3.8 V), Battery change during operation (ca. ten seconds buffering)

Dimensions, Weight

Dimensions:	333 x 196 x 93 mm (L x W x D) with enabling switch
Weight:	Ca. 1650 g with enabling switch, without cable
Dimensions:	333 x 196 x 64 mm (L x W x D) without enabling switch
Weight:	Ca. 1450 g without enabling switch, without cable

Core

CPU:	NXP® i.MX8M Mini, 4x Cortex A53 (4x 1.8 GHz) and 1x Cortex M4 (1x 400 MHz)
Memory:	16 GB Flash, 4 GB RAM Optional 32 GB Flash available

General information

Operating system:	Android™** Industrial+
Housing:	ABS/PC
Protection class:	IP54
Operating temperature:	-20 °C to 50 °C
Storage temperature:	-20 °C to 60 °C
Charging temperature:	5 °C to 35 °C
Rel. humidity:	5 % to 90 %, non-condensing (M2Zustimm10: 45 % to 85 %, non-condensing)
Permissible air pressure:	Up to 2,000 m above sea level (operation, storage, transportation)
Optional:	Various modules such as handwheels, additional buttons on request
Certification:	CE
System components:	M2Smart® HMI Access Point (optional)

Article numbers

8051-3162-000 :	M2Smart® HMI10 w / 5 Meters / Enabling switch
8051-3160-000:	M2Smart® HMI10 w / 10 Meters / Enabling switch

* Registered trademark - NXP

** Registered trademark - Android™ - Android is a trademark of Google LLC
Subject to technical changes

ACCESSORIES



M2Smart® HMI10 w – Passive Mount SE

Passive wall mount without charging option

- Article number: 8051-3014-000
- Operating temperature: -20 °C to 50 °C
- Device dimensions: 124 x 270 x 112 mm (L x W x H)
- Weight: 500 g
- Special feature: Upgrade to active mount possible



Capacitive touch pen

Capacitive touch pen for easy operation of the M2Smart® HMI10 Wired

- Article number: 3330-0216-000
- Length: Ca. 11 cm
- Diameter: Ca. 0.6 cm



M2Smart® display protection film 10.1 Inch / low reflection

Display protection film with anti-reflective coating

- Article number: 8051-2811-000
- Material: Extremely robust polymer composite
- Technology: Anti fingerprint
- Surface: > 3H surface hardness



M2Smart® display protection film 10.1 Inch

AirGlass display protection film pre-installed on the device

- Article number: 8051-2812-000
- Technology: Anti fingerprint
- Surface: 9H scratch resistance
- Impact resistance: IK06

System Components

M2Smart® HMI Access Point



TECHNICAL DATA

Interfaces

Connections:	RJ45, 3-pin screw connection
Communication:	BT-compatible short-range radio V2.1, WiFi
Operating mode:	Access Point
Pairing:	Connection configuration and pairing via Android™ settings

General information

Power supply:	Via Ethernet (PoE) or 3-pin plug
Power supply via Ethernet (PoE):	37 - 57 V
Power supply via 3-pin plug:	19 - 36 V, 1.7 W
Housing:	Plastic
Protection class:	IP66, IP67
Operating temperature:	-40 °C to 65 °C
Storage temperature:	-40 °C to 85 °C
Certification:	CE, UL, ATEX, FCC, IC

Dimensions, Weight

Dimensions:	68 x 68 x 75 mm (L x W x D), Height above mounting surface: 42 mm
Weight:	85 g

Further details

Further details and more information can be found on the following homepage:

<https://www.hms-networks.com/p/awb2030-b-anybus-wireless-bolt-ethernet-rj45-poe-black-version>

Article numbers

8051-3016-000:	M2Smart® HMI Access Point
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Subject to technical changes



06

Mobile Handheld Computer M2Smart®SE RFID

TECHNICAL DATA

Display

Type:	TFT color display
Size:	5" (16:9)
Resolution:	1280 x 720 pixels
Brightness:	400 cd/m ²
Touch screen:	Capacitive, surface hardness 7H
Backlight:	LED backlight
Display:	Three status LEDs

Power Supply

Power Supply:	Quick-change battery, Li-ion with 22.8 Wh (6,000 mAh/3.8 V), battery change during operation (ca. eight seconds buffering), docking station incl. battery charger for spare battery
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Options

Communication:	WiFi according to IEEE802.11a/b/g/n/ac/d/h/e/i/r/k/w/v (2.4 GHz/5 GHz) incl. BT-compatible short-range radio 5.0 WiFi Security ¹ : WEP, WPA, IEEE802.11i (Personal and Enterprise), WPA2, WPA2-PSK 802.1x: authentication
NFC reader:	HF-RFID/NFC
Camera:	5 MP auto-focus camera with lighting
Barcode scanner:	Integrated in housing (side scanner keys) 2D shortrange Imager SE4770 (IP65) or 2D midrange Imager SE4750MR (IP54)

TECHNICAL DATA



Dimensions, Weight

Dimensions: 174 x 82 x 28 mm (L x W x D)
Weight: Ca. 390 g

Core

CPU: NXP®* i.MX8M Mini,
 4x Cortex A53 (4x 1.8 GHz) and
 1x Cortex M4 (1x 400 MHz)
Memory: Standard: 16 GB Flash, 2 GB RAM
 Optional: 32 GB Flash, 4 GB RAM

General information

Operating system: Android™** Industrial+
Loudspeaker: Integrated loudspeaker
Buttons: Side On-/Off button, scanner buttons
Housing: ABS/PC
Protection class: IP54/IP65
Operating temperature: -20 °C to 50 °C***
Storage temperature: -20 °C to 60 °C
Charging temperature: 5 °C to 35 °C
Certification: CE

Article numbers

8051-3024-000: M2Smart®SE without camera and imager
8051-2884-000: M2Smart®SE with camera and 2D shortrange Imager
8051-2941-000: M2Smart®SE with camera and 2D midrange Imager

* Registered trademark - NXP

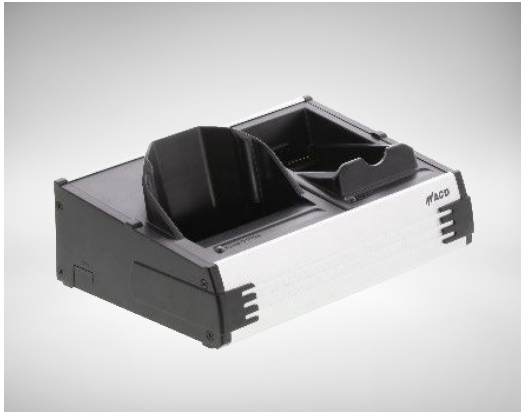
** Registered trademark - Android™ - Android is a trademark of Google LLC

*** The device should only be used in the deep-freeze area after the starting process

¹ Standard codification validated by ACD.

Subject to technical changes

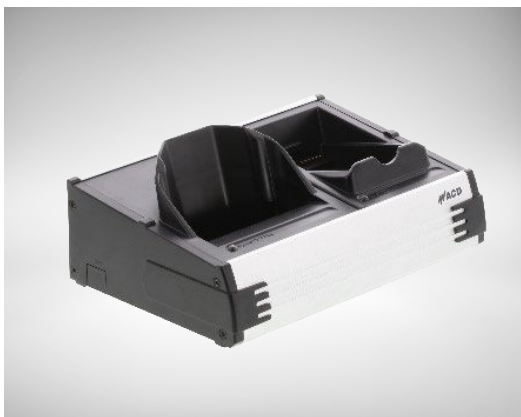
ACCESSORIES



DS2Smart® Charging and transmission box

For charging a M2Smart®SE as well as a replacement battery incl. Ethernet interface and USB-Host interface (not for M2Smart® HMI5)

- Article number: 8051-2544-000
- Operating temperature: 0 °C to 40 °C
- Device dimensions: 138 x 200 x 78 mm (L x W x H)
- Weight: 557 g
- Power supply: 15 V DC, 36 W
- Interfaces: DC socket, USB-A, Ethernet



DS2Smart® Charging box

For charging a M2Smart®SE as well as a replacement battery (not for M2Smart® HMI5)

- Article number: 8051-2613-000
- Operating temperature: 0 °C to 40 °C
- Device dimensions: 138 x 200 x 78 mm (L x W x H)
- Weight: 557 g
- Power supply: 15 V DC, 36 W
- Interfaces: DC socket



DS2Smart® Developer box

For charging a M2Smart®SE as well as a replacement battery incl. USB cable for connection to a PC (not for M2Smart® HMI5)

- Article number: 8051-2708-000
- Operating temperature: 0 °C to 40 °C
- Device dimensions: 138 x 200 x 78 mm (L x W x H)
- Weight: 557 g
- Power supply: 15 V DC, 36 W
- Interfaces: DC socket, USB cable that has been unplugged



DS2Battery Charging box (2-fold)

For charging two replacement batteries

- Article number: 8051-2738-000
- Operating temperature: 0 °C to 40 °C
- Device dimensions: 138 x 171 x 61 mm (L x W x H)
- Weight: 440 g
- Power supply: 15 V DC, 36 W
- Interfaces: DC socket

ACCESSORIES



DS2Smart® Multiple charging box (5-fold)

For charging of five M2Smart®SE (not for M2Smart® HMI5)

- Article number: 8051-3177-000
- Operating temperature: 0 °C to 40 °C
- Device dimensions: 138 x 550 x 78 mm (L x W x H)
- Weight: 1461 g
- Power supply: 24 V DC, 120 W
- Interfaces: DC socket



Connection set – 36 W (EU, CH, NO, IS, LI)

Connection set for DS2Smart® Charging and transmission box, DS2Smart® Charging box, DS2Smart® Developer box and DS2Battery Charging box (2-fold)

- Article number: 8051-2308-000
- Power supply unit: 100 - 240 V AC - 15 V / 36 W
- AC power cable: Type C
- Length mains cable: 1.5 m



Connection set – 36 W, incl. USB cable (EU, CH, NO, IS, LI)

Connection set for DS2Smart® Charging and transmission box

- Article number: 8051-2310-000
- Power supply unit: 100 - 240 V AC - 15 V / 36 W
- AC power cable: Type C
- Length mains cable: 1.5 m
- USB cable: A/B



Connection set – 36 W, incl. Ethernet cable (EU, CH, NO, IS, LI)

Connection set for DS2Smart® Charging and transmission box

- Article number: 8051-1330-000
- Power supply unit: 100 - 240 V AC - 15 V / 36 W
- AC power cable: Type C
- Length mains cable: 1.5 m

ACCESSORIES



Connection set – 120 W (EU, CH, NO, IS, LI)

Connection set for DS2Smart® Multiple charging box (5-fold)

- Article number: 8051-3182-000
- Power supply unit: 85 - 264 V AC - 24 V / 120 W
- AC power cable: Type C
- Length mains cable: 1.2 m



M2UHF-RFID Midrange for EU (ETSI)

Plug-in module for reading and writing UHF RFID tags as upper plug-on module for the M2Smart®SE

- Article number: 8051-2711-000
- Frequency range: 865 up to 868 MHz
- Reading range: Up to 6 meters
- Antenna type: Integrated Linear Polarized
- Power output: 10 dBm up to 27 dBm
- Radiation power: 9 dBm up to 26 dBm (EIRP), 7 dBm up to 24 dBm (ERP)



M2UHF-RFID Midrange for USA & Canada (FCC/IC)

Plug-in module for reading and writing UHF RFID tags as upper plug-on module for the M2Smart®SE

- Article number: 8051-2734-000
- Frequency range: 902.75 to 927.25 MHz
- Reading range: Up to 6 meters
- Antenna type: Integrated Linear Polarized
- Power output: 10 dBm up to 26.5 dBm
- Radiation power: 9 dBm up to 26 dBm (EIRP), 7 dBm up to 24 dBm (ERP)



M2UHF-RFID Midrange for China (SRRC)

Plug-in module for reading and writing UHF RFID tags as upper plug-on module for the M2Smart®SE

- Article number: 8051-2711-000
- Frequency range: 920.5 to 924.5 MHz
- Reading range: Up to 6 meters
- Antenna type: Integrated Linear Polarized
- Power output: 10 dBm up to 27 dBm
- Radiation power: 9 dBm up to 26 dBm (EIRP), 7 dBm up to 24 dBm (ERP)

ACCESSORIES



Replacement battery Plus

Replacement battery for the M2Smart® HMI5 Radio

- Article number: 8001-0777-000
- Power supply: 22.8 Wh (3.8 V/6,000 mAh)
- Battery type: Li-Ion
- Special feature: Change during operation



Capacitive touch pen

Capacitive touch pen for easy operation of the M2Smart® HMI5 Radio

- Article number: 3330-0216-000
- Length: Ca. 11 cm
- Diameter: Ca. 0.6 cm



M2Smart® display protection film 5 Inch / low reflection

Display protection film with anti-reflective coating

- Article number: 8051-3094-000
- Material: Extremely robust polymer composite
- Technology: Anti fingerprint
- Surface: > 3H surface hardness



M2Smart® display protection film 5 Inch

AirGlass display protection film

- Article number: 8051-3095-000
- Technology: Anti fingerprint
- Surface: 9H scratch resistance
- Impact resistance: IK06



07

ACD Software Tools Mobile HMI Devices

OVERVIEW

- ACD HMIconfig
- ACD HMIService
- ACD SystemApp
- ACD Network Manager
- ACD KeyConfig
- ACD KioskBrowser
- ACD KioskMode
- ACD WebAppService

	M2Smart® HMI5 Radio	M2Smart® HMI10 Radio	M2Smart® HMI10 Wired	M2Smart® HMI10TE Wired LE
ACD HMIConfig With the ACD HMIConfig application, all functions of the M2Smart® HMI5 and M2Smart® HMI10 system can be managed and controlled.	×	×		
ACD HMIService ACD HMIService is the interface between the ACD HMIConfig front-end application and the M2Smart® HMI system. ACD HMIService offers an API interface with which the functions of ACD HMIService can be integrated into your own applications.	×	×		
ACD SystemApp ACD SystemApp is a program for displaying system information.	×	×	×	×
ACD Network Manager With the ACD Network Manager, WiFi and Ethernet information is clearly displayed and the relevant configurations can be easily made.	×	×	×	×
ACD KeyConfig The ACD KeyConfig enables simple and clear configuration of all keys. Furthermore, the soft keyboard can be easily activated and deactivated thanks to quick access via icons.	×	×	×	×
ACD KioskBrowser The ACD KioskBrowser is a simple, restrictive web browser that limits user access. For example, access to the address bar is blocked here.	optional	optional	optional	optional
ACD KioskMode ACD KioskMode can be used to ensure that end users can only access certain applications.	optional	optional	optional	optional
ACD WebAppService Service for communication between customer-specific web application and mobile HMI device.	optional	optional	optional	optional

WE LOOK FORWARD TO YOUR INQUIRY!

We also offer all products for testing in advance. Simply make an appointment with our sales department!

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