

Agile S NI

for Zone 2/Div. 2 hazardous areas



The Agile S NI from BARTEC is a rugged and highly flexible industry tablet PC for rough environments.

Thanks to its broad range of functions, the Agile S NI is the perfect assistant to service technicians, operating staff, engineers and project managers in the field and in the industry.

The Agile S NI is approved for ATEX/IECEX/UKEX Zone 2/22 and NEC Class I Div. 2. Further local certifications are possible on customer request.

- 10.1" sunlight readable display
- Windows 10 IoT Enterprise
- Highly rugged - tested as per MIL-STD-810G
- Integrated barcode scanner and RFID reader
- Optional 4G/LTE module

Explosion protection

Marking ATEX	⊕ II 3G Ex ic IIC T4 Gc ⊕ II 3D Ex ic IIIB T130 °C Dc IP 64
Certification	EPS 19 ATEX 1179 X
Marking IECEx	Ex ic IIC T4 Gc Ex ic IIIB T130 °C Dc IP 64
Certification	IECEX EPS 19.0079X
Marking UKEX	⊕ II 3G Ex ic IIC T4 Gc ⊕ II 3D Ex ic IIIB T130 °C Dc IP 64
Certification	CML 21UKEX2346X
Marking NEC	Class I Div. 2 Groups A, B, C, D T4A
Certification	CSA File 180267
Further Certifications	CE, FCC/IC

Other approvals and certificates, see www.bartec.com

User environment

Operating temperature ATEX/IECEX Zone 2 / 22	-20 °C to +50 °C (-4 °F to 122 °F)
Operating temperature Class I Division 2	-10 °C to +50 °C (14 °F to 122 °F)
Charging temperature	0 °C to +45 °C (32°F to 113°F)
Storage temperature (without battery)	-30 °C to +70 °C (-22 °F to 158 °F)
Relative humidity	10 % ~ 90 % (non-condensing)
Protection class (IEC 60529)	IP 65
Shock, vibration, drop, temperature and vibration	according to MIL-STD-810G

Technical data

Processor	Intel Core i5-7300U Kaby Lake 2.6 GHz (turbo frequency up to 3.5 GHz)
Memory (RAM)	– 8 GB DDR4 SDRAM – 16 GB DDR4 SDRAM
Mass storage	256 GB mSATA MLC SSD
Storage expansion	User accessible MicroSD – Micro SD v1.0/v1.1/v1.2 SDHC: up to 32 GB – Micro SD SDXC: up to 2 TB
Operating system	Windows® 10 IoT Enterprise LTSC (64 bit), multilingual
Size (W x L x H)	271.8 mm x 197.2 mm x 21 mm (10.7 inch x 7.76 inch x 0.83 inch)
Weight	1,2 kg (2.65 lb)
Display	10.1" IPS Display with LED Backlight
Resolution	1920 x 1200 pixel, WUXGA
Brightness	800 cd/m² Sunlight readable by optical bonding
Contrast ratio	800:1
Viewing angle	85° from all sides
Front glass	Gorilla glass with hardness of 8 H
Touch function	Projective Capacitive Touch

Usability	Depending on the mode set with stylus, finger or glove
Standard battery	Lithium-polymer battery 7.4 V/5140 mAh (38.04 Wh), charging time: 3 hours running time: up to 8 hours
Hot-Swap battery	7.4 V/330 mAh (integrated in the device)
Audio	1 x integrated microphone 2 x loudspeakers (2 x 1 watts)
Buttons	1 x power 1 x home 2 x programmable function keys 2 x volume keys
External I/O	under protective cover – for use only outside hazardous areas 1 x Micro HDMI 1 x USB 3.0 (Type A) 1 x USB 3.0 (Type C) 1 x Audio combination connection (Mic in/Line Out) 1 x Charging Port (DC) 1 x Micro SD card slot 1 x Micro SIM card slot
Barcode capture	– 1D/2D Imager Honeywell N6600 – Supported Symbologies / barcodes: see table
Camera	8 MP camera with autofocus and LED flash on the back 2 MP camera on the front
Internal RFID HF reader 13.56 MHz	Following RFID tags are supported: (read/write) e. g. Type 1, 2, 3 and 4, ISO/IEC 14443A/B, ISO/IEC 15693, Mifare Classic, FeliCa, ISO 18092 (NFC)
WLAN-WiFi	Low Power Dual Band IEEE802.11 a/b/g/n/ac (R2 2x2 + MU-MIMO) WPA/2 Personal and Enterprise, WPS2, 802.11w, WMM, WMM-PS, WFD, Miracast, Passpoint R2, BVoice Personal
Bluetooth	Version 5.0
GNSS Module	GPS/ QZSS, GLONASS, BeiDou, Galileo ready, up to 2.5 m precision
Sensors	Brightness sensor, G sensor, Gyro meter and eCompass
Security	Password security for user and hard disk lock Trusted platform module (TPM) V 2.0
Mobile Device Management	SOTI mobicontrol compatible
Warranty	1 year for Agile S NI 6 month for battery and accessories
Service contracts	COMFORT and ALL-IN
Scope of delivery	– Agile S NI – Standard battery – Stylus – Hand strap – Power supply – Power cable (EU + US) – Quick start guide

WWAN

4G/LTE - optional

Data transmission	Frequency band		
	4G - LTE Category: Cat-6	3G - WCDMA DC-HSPA+/HSPA+/HSPA/ UMTS	3G - TD-SCDMA
US Module: Sierra Wireless MC7455	B1, B2, B3, B4, B5, B7, B8, B12, B13, B20, B25, B26, B29, B30, B41	B1, B2, B3, B4, B5, B8	-
Asia/Pacific + South America Module: Sierra Wireless MC7430	B1, B3, B5, B7, B8, B18, B19, B21, B28, B38, B39, B40, B41	B1, B5, B6, B8, B9, B19	B39
EU + Korea + Taiwan Module: Sierra Wireless MC7455	B1, B2, B3, B4, B5, B7, B8, B12, B13, B20, B25, B26, B29, B30, B41	B1, B2, B3, B4, B5, B8	-

Supported Symbologies/Barcodes

1D/Linear Symbol/Codes	Codabar * Code 2/5 Code 11 Code 39 * Code 93 * Code 128 * EAN/JAN-8 * EAN/JAN-13 * GS1-128 *	GS1 DataBar Expanded * GS1 DataBar Limited * GS1 DataBar Omni-Directinal * IATA 2/5 Interleaved 2 of 5 * ISBT 128 Matrix 2 of 5 MSI NEC 2/5 *	Planet Code Telepen Trioptic Code UPC-A * UPC-A/EAN-13 Extended Coupon Code UPC-E * UPC-E1
2D Stacked and 2D Matrix Symbol/Codes	Aztec Code * Codablock A Codablock F Data Matrix *	GS1 Composite Han Xin Cod MaxiCode MicroPDF417 *	Micro QR Code PDF417 * QR Code *
Postal Symbol/Codes	Australian Post British Post Canadian Post China Post	Intelligent Mail Barcode Japanese Post Korea Post Netherlands (KIX) Post	Planet Code Postal-4i Postnet
OCR (Option) Symbol/Codes	OCR-A OCR-B E13B (MICR)		

*activated in Default setting.
All barcodes can be activated/deactivated and set via a configuration tool.

Typical reading range

The quality of the barcode and environmental conditions may affect performance.

Symbologies/Barcodes	Standard range (typical)		Extended range (typical)	
	Start (mm/[in])	Stop (mm/[in])	Start (mm/[in])	Stop (mm/[in])
C39 5mil	64 [2.5]	163 [6.4]	96,5 [3.8]	283 [11.1]
C39 10mil	28 [1.1]	338 [13.3]	72 [2.8]	551 [21.7]
UPC-A 13mil	46 [1.8]	419 [16.5]	51 [2.0]	559 [22.0]
C39 20mil	-	-	56 [2.2]	819 [32.2]
PDF 417 6.7mil	46 [1.8]	185 [7.3]	127 [5.0]	232 [9.1]
QR 20mil	-	-	45 [1.8]	516 [20.3]
DM 10mil	53 [2.1]	203 [8.0]	120 [4.7]	282 [11.1]

Ordering information

Agile S NI	- with scanner: Honeywell N6600 - Memory (RAM): 8 GB - Windows® 10 IoT Enterprise LTSC (64 bit)	B7-A2B4-102112111100
Agile S NI	- with scanner: Honeywell N6600 - Memory (RAM): 16 GB - Windows® 10 IoT Enterprise LTSC (64 bit)	B7-A2B4-102122111100