Wireless Bolt and Sunbolt LTE and NB-IoT

- Mobile radio LTE Cat. 4 (Wireless Bolt LTE) or NB-IoT/LTE CAT-M1 (Wireless Bolt IoT)
- Integrated antenna (Bolt LTE with MIMO)
- Slot for nano SIM cards
- Ethernet interface 10/100 Mbits/s
- Power over Ethernet support
- Integrated firewall, NAT and DHCP server
- Configuration via web server and command line
- IP66/67 top side (outside the control cabinet)

https://www.wachendorff-prozesstechnik.de/en/WB-LTE

Description

Attach a wireless bolt to your machine and connect your machine or system to the internet via mobile radio.

Thanks to its special design, the bolt is mounted in an M50 opening in the machine and seals off the control cabinet (IP67). The antenna is located outside the control cabinet and the connections for the Ethernet interface inside.

The Wirelett Bolt LTE complies with the fast and secure LTE Cat-4 standard. MIMO with two antennas ensures the best reception. Data rates of up to 100 Mbps download and 50 Mbps upload are possible.

The Wireless Bolt IoT supports both NB-IoT and LTE CAT-M1 with fallback to GPRS/EDGE and, with its ultra-low power mode, enables operation with battery, solar and wind-powered applications. 13 frequency bands are supported worldwide.

The transparent TCP/IP transmission of data is suitable for any application.

The Wireless Bolt is available in the normal, black version and as a Sunbolt for outdoor use in direct sunlight. Thanks to its UV-resistant white plastic, it develops significantly lower temperatures inside the housing.

Product details

Mobile radio LTE/4G (WWBO1500, WWBO1501, WWBO1502, WWBO1503):	EMEA (WWBO1500, WWBO1501): LTE Cat. 4 (B1, B3, B7, B20, B28) 3G Fallback
	Americas (WWBO1502, WWBO1503): LTE Cat. 4 (B2, B4, B5, B12, B13, B14, B25, B26, B66) 3G fallback
Mobile radio NB-IoT/LTE Cat-M1 (WWBO1000, WWBO1001):	4G / LTE Cat-M1 and NB-IoT (B1, B2, B3, B4, B5, B8, B12, B13, B17, B18, B19, B20, B26, B28) 2G / EDGE / GPRS (bands 850, 900, 1800, 1900 MHz)
Antenna:	Integrated
Ethernet interface:	10/100BASE-T with automatic MDI/MDIX auto-crossover detection.
Configuration:	via internal web server and command line

Power supply:	Articles WWBO2000, WWBO2001, WWBO2010, WWBO2011, WWBO2020, WWBO2021: 9-30 VDC (-5% +20%), reverse polarity protection, power consumption: 0.7 W in idle state, 1.7 W max. Articles WWBO2030, WWBO2031: 19-36V DC, PoE (Power over Ethernet), DTE type 1 according to IEEE802.3af
Protection class:	IP66/67 top side (outside the control cabinet, IP21 underside (inside the control cabinet)
Ambient conditions:	Operating temperature: -40 °C to +65 °C Storage temperature: -40 °C to +85 °C Relative humidity according to EN 600068-2-78
Dimensions:	Diameter: 70mm, height: 70mm. Height outside switch cabinet 41mm
Assembly:	M50 screw incl. seal and nut (50.5mm opening required)
Weight:	100g
Certifications:	Wireless Bolt IoT (WWBO1000, WWBO1001) CE/RED, FCC/IC, GCF and PTCRB, UL 62368/UL 60950, UL file E214107
	Wireless Bolt LTE (WWBO1500, WWBO1501, WWBO1502, WWBO1503) CE/RED, FCC, PTCRB, UL/cUL E214107, Pending: Verizon, AT&T
Manufacturer:	HMS Industrial Networks AB

Products Order no.

WWBO1000	Wireless Bolt IoT NB-IoT and LTE Cat-1M
WWBO1001	Wireless Sunbolt IoT NB-IoT and LTE Cat-1M
WWBO1500	Wireless Bolt LTE EMEA, 4G LTE-M Cat-4, 3G
WWBO1501	Wireless Sunbolt LTE EMEA, 4G LTE-M Cat-4, 3G

WWBO1502	Wireless Bolt LTE Americas, 4G LTE-M Cat-4, 3G
WWBO1503	Wireless Sunbolt LTE Americas, 4G LTE-M Cat-4, 3G

Accessories Order no.	
WWBO24708	Protective cover for underside of wireless bolt, protection class IP66/67
WWBO24709	Protective cover for underside and mounting bracket for wireless bolt, protection class IP66/67, mounting bracket for wall or pole mounting