DATA SHEET

AGILLOX

AGX RadioForce
DT 200USB
**(200 mW UHF Reader
10 cm - 1 m read range)**

Product Description	AGX RadioForce DT 200USB

The AGX RadioForce DT 200USB reader is an UHF multiregional compact reader for medium UHF RFID applications.

With programmable output power in 15 levels from 9dBm to 23dBm (from 8 mW to 200 mW), the reader can detect tags up to 1m of distance (depending on antenna and tag dimensions).

The radio frequency core of the module allows to achieve fast reading/writing and operation in dense reader and dense tag environments for top-class rated performances.

The AGX RadioForce DT 200USB complies with and can operate in both European and US regulatory environments and, due to its multiregional capabilities, it's ideal for integration in devices requiring compliance to different geographical regions.

Electrical Characteristics

Operating Frequency	902÷928 MHz (FCC part 15) 865.600÷867.600 (ETSI EN 302 208)
UHF Standards	EPCglobal Gen 2 (ISO 18000-6C) with DRM, ISO 18000-6B (optional) and IP-X (optional)
Output Power	Programmable in 15 levels (1dB step) from 9dBm to 23dBm (from 8mW to 200mW) conducted
Number of channels	4 channels (compliant to ETSI EN 302 208) 50 hopping channels (compliant to FCC part 15)
Frequency tolerance	±10 ppm over the entire temperature range
Read range	Depending on the performance of the transponder, frequency, chip type and the system environment. RadioForce DT 200USB (10cm - 1m)
Communication interface	One USB 2.0 Full Speed (12 Mbits per second) device port.
Digital I/O	4 I/O lines 3.3V out @ 3mA; 3.3V input level
Power supply	4.75VDC ÷ 5.25VDC via USB
Power consumption	1.6W @ RF out = 23dBm, 1.3W @ RF out = 17dBm, 0.25W in idle mode
Operational temperatur	from - 10°C up to 55°C
Size	Size: 110mm x 110 mm x 40/25 mm ± 0,3mm
Protection class	IP54
Antennea connector	SMA connector / 50 Ohm
Certificates	FCC, ETSI
max. cable length USB/antenna	up to 2m
Gehäuse	Aluminium / black painted
Weight	119 gr
Article No.:	200mW incl. antenna inside	**AGX RadioForce DT 200USB**

Typical Applications

harsh environment applications	Sport events
automotive industry and laboratory	identification and back tracing
bio/chemistry/forensic/pharmacy/environment	beverages logistics