EBVchips – Heracles

Quad-band GSM/GPRS Module with embedded M2M Sim card and prepaid cellular connectivity



As first step of the Orange IoT Booster program, the connected module Heracles results from the fruitful partnership between Orange and EBV Elektronik, an Avnet company and the leading specialist in EMEA Semiconductor Distribution, combining Orange's assets in cellular connectivity and EBV's expertise on electronic market in an "all inclusive" solution, available off the shelf.

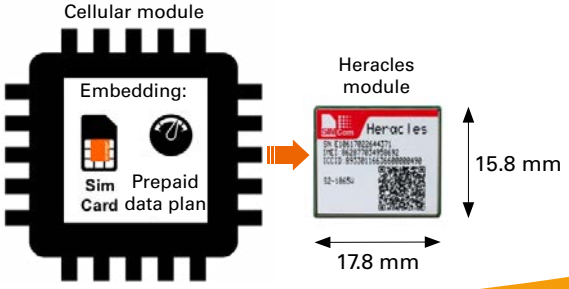
Designed to simplify the IoT device making process, Heracles provides a ready to use 2G cellular module embedding a SIM card with a prepaid data plan, valid for a long term period up to 2025, at no additional cost and without any monthly fee. Orange provides an IoT Booster with its 1st quality cellular network and a large tier one roaming network footprint covering 33 European countries. Certified by Orange, Heracles offers a most miniaturized solution, ideal for ultra-compact designs and a best in class low power SoC.

With its very small size of 15.8 mm x 17.8 mm x 2.4 mm it fits into slim and compact demands of any customer design. The module supports quad-band 850/900/1800/1900 MHz, GPRS multi-slot class 12/10 as well as GPRS mobile station class B and is compliant to GSM phase 2/2+ Class 4 and 1. The modules high quality, small form factor makes it ideal for SMD assembly.

BENEFITS

- Ideal for automotive (after market), tracking, metering, industry, wearables,...
- Indoor or Outdoor solution
- No monthly fees
- Predictable and competitive price
- Seamless for object end-users: no subscription, no activation process
- Ready to connect and fast time-to-market solution
- SIM card with high security specifications
- Reliable connectivity working seamlessly across 33 European countries and tier-one roaming networks
- Wide and deep 2G cellular coverage
- Built in SIM card high security specifications

FROM YOUR NEED TO THE REALITY



All statements are without any engagement. Subject to modifications and amendments. | F-119-E-07-2017-v1

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IoT Booster connected module

One stop shop cellular IoT solution for object makers embedding a SIM card with a prepaid data plan

SPECIFICATIONS

General features

- Quad-band 850/900/1800/1900MHz
- GPRS multi-slot class 12/10
- GPRS mobile station class B
- Compliant to GSM phase 2/2+
  - Class 4 (2 W @ 850/900MHz)
  - Class 1 (1 W @ 1800/1900MHz)
- Dimensions: 15.8*17.8*2.4mm
- Weight: 1.5g
- Supply voltage range 3.4 ~ 4.4V
- Low power consumption
- Operation temperature:-40°C ~85°C

Specifications for GPRS Data

- GPRS class 12: max. 85.6 kbps (downlink/uplink)
- PBCCH support
- Coding schemes CS 1, 2, 3, 4
- PPP-stack

Compatibility

- AT command interface

Certifications

- CE, RoHS, REACH, RED, Orange Cellular Network

Software features

- 0710 MUX protocol
- EmbeddedTCP/UDP protocol
- FTP/HTTP
- E-MAIL
- DTMF
- Jamming Detection
- Audio Record
- SSL

Interfaces

- 88 LGA pads including:
- Analog audio interface
- PCM interface
- RTC backup
- Serial interface
- USB interface
- Keypad interface
- GPIO
- ADC
- GSM Antenna pad

COUNTRIES WITH DATA COVERAGE:

- Austria
- Andorra
- Belgium
- Bulgaria
- Croatia
- Cyprus
- Czech Republic
- Denmark
- Estonia
- Finland
- Metropolitan France
- Germany
- Greece
- Hungary
- Iceland
- Ireland
- Italy
- Latvia
- Liechtenstein
- Lithuania
- Luxembourg
- Malta
- Netherlands
- Norway
- Poland
- Portugal
- Romania
- Slovakia
- Slovenia
- Spain
- Sweden
- Switzerland
- United Kingdom

4 PREPAID DATA PLANS GUARANTEED UNTIL 2025

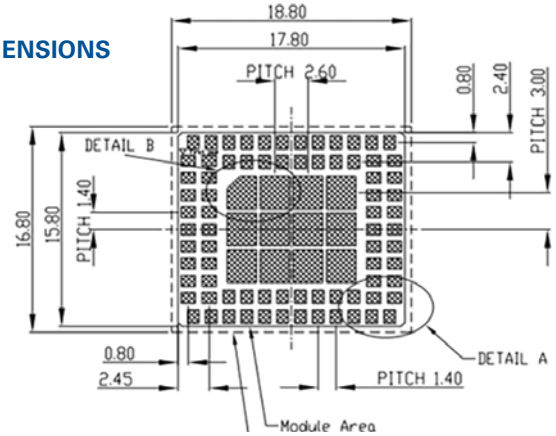
- Small 10 MB
- Medium 40 MB
- Large 200MB
- Extra-Large 500MB

RELATED PRODUCT

- Heracles Evaluation Board

Detailed technical datasheet upon request.
For more information please contact our sales representatives
adresse.generique@orange.com / ebvchips@ebv.com

DIMENSIONS



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