gemalto

security to be free

EHS6 Terminal

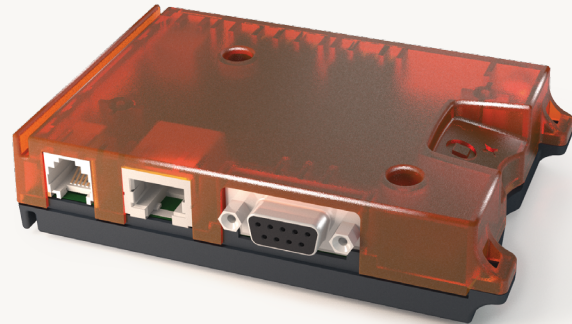|	
Five Band 3G HSPA	Quad Band GPRS / EDGE Class 12
Ethernet Interface	Java embedded
USB 2.0 High Speed compatible	Advanced Temperature Managment
Embedded TCP / IP Stack	RLS Monitoring (Jamming Detection)
FOTA configurable & royalty-free	Flexible Mounting

Java POWERED

TERMINALS

Cinterion® EHS6 Terminal
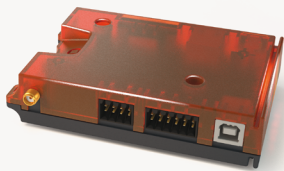## 3G Highspeed M2M Gateway powered by Java™

Cinterion® EHS6 Terminal
3G Highspeed M2M Gateway powered by Java

Gemalto's new suite of Cinterion® 3G Smart Terminals takes M2M simplicity to a whole new level. Leveraging Gemalto's next-generation Java® embedded technology, the plug-and-play solutions powered by a five-band HSPA+ baseband enable high-speed, secure wireless TCP/IP connectivity anywhere in the world for a variety of industrial applications such as metering, remote monitoring, transportation, security and many more. The Cinterion gateways come in three versions providing universal industrial interfaces e.g. USB or Ethernet are encased in a compact, rugged housing with integrated SIM cardholder and unprecedented mounting

options. They provide first-time M2M developers and small-scale implementers with a flexible, cost effective solution to quickly launch enterprise optimization solutions that expand the Internet of Things. Optional features include embedded component SIM (MIM) and a cloud based Sensor-Logic application enablement platform that enable out-of-the-box M2M communication reducing integration complexity and Total Cost of Ownership. Like all Cinterion products, the SMART 3G terminals comes with full type approval (FTA) and is certified by the largest carriers worldwide.

Plug-and-Play with Most Flexible Mounting

Plug & Play
EHS6 Terminal is a simple and reliable plug-and-play communication device that allows new M2M implementers to quickly connect their industrial applications using wireless technology. With very little integration and approval efforts, it provides a cost effective, swift solution for enterprise optimization technology.

Embedded Java™
Java offers easy and fast application development, a broad choice of tools, high code reusability, easy maintenance, a proven security concept, on-device debugging as well as multi-threading programming and program execution.

Highly Flexible Mounting Concept
Encased in robust plastic housing, the miniaturized terminal works in virtually any application providing secure 24-7 connectivity. For quick and easy implementation, the terminal is compatible with a variety of mounting schemes including:

> DIN rail mounting   > Screw fixing

> C-rail mounting   > The use of cable ties

Terminal Variants

Interface / Productname	RS-232	RS-485	USB 2.0	Ethernet	Frequencies
EHS6T USB	●		●		Five Band 3G , Four Band 2G
EHS6T LAN	●			●	Five Band 3G , Four Band 2G
EHS5T		●	●		Dual-Band 2G/3G

Common to all are multiple GPIO's, I²C and SPI via Weidmüller connector.

Gemalto M2M Support includes:
> Personal design-in consulting for hardware and software

> Extensive RF test capabilities

> GCF/PTCRB conform pretests to validate approval readiness

> Regular training workshops

Local engineers, a competent helpdesk, a dedicated team of R&D specialists and an advanced development center are the hallmarks of our leading support offer.

Cinterion® EHS6 Terminal Features

GENERAL FEATURES

> 3GPP Rel.7 Compliant Protocol Stack
> Five Bands UMTS (WCDMA/FDD)
  Bands: 800, 850, 900, 1900 and 2100 MHz
  EHS5T: Dual Band (900, 2100 MHz)
> Quad-Band GSM
  Bands: 850, 900, 1800 and 1900 MHz
  EHS5T (900, 1800 MHz)
> SIM Application Toolkit, letter class ¨b¨, ¨c¨, ¨e¨
> Control via standardized and extended
  ATcommands (Hayes, TS 27.007 and 27.005)

> TCP/IP stack access via AT command and
  transparent TCP services
> Secure Connection for client IP services
> Internet Services TCP/UDP server/client, DNS, Ping,
  FTP client, HTTP client
> Supply voltage range 8 – 30 V
> Dimension: 115 x 86 x 26 mm (incl. connectors)
> Weight: approx 130g
> Operating Temperature: -30 °C to +65 °C

SPECIFICATIONS

> HSDPA Cat.8 / HSUPA Cat.6 data rates
  DL: max. 7.2 Mbps, UL: max. 5.76 Mbps
> EDGE Class 12 data rates
  DL: max. 237 kbps, UL: max. 237 kbps

> GPRS Class 12 data rates
  DL: max. 85.6 kbps, UL: max. 85.6 kbps
> CSD data transmission up to 9.6 kbps, V.110,
  non-transparent
> SMS text and PDU mode support

SPECIAL FEATURES

> USB interface supports multiple composite modes and
  a Linux-/Mac- compliant mode
> Firmware update via USB and serial interface
> Real time clock with alarm functionality
> Multiplexer according 3GPP TS 27.010
> RLS Monitoring (Jamming detection)

> Informal Network Scan
> Programmable hardware watchdog
> Flexible mounting concept
> Integrated FOTA, configurable and royalty free
> Embedded SIM as an option (MIM)

JAVA OPEN PLATFORM

> Java™ ME 3.2
> Secure data transmission with HTTPS/SSL
> Multi-Threading programming and

> Multi-Application execution
> 6 MB RAM and 10 MB Flash File System

INTERFACES

> Antenna Connector SMA (female) for GSM/WCDMA
> 20 pin header (Weidmüller) with GPIO's, power, SPI, I²C
> Mini SIM card reader, 1,8V and 3,0V
> Embedded SIM as an option (MIM)
> 2 operating status LED's
> 4-wire high speed serial interfaces ASC1
> EHS6-T USB:
  > USB (B) 2.0 HS interface

> Plug-in power supply connector (6-pole
Western jack)
> V.24/ V.28 RS-232 interface, up to 920kbps,
auto-bauding (D-sub 9-pole female socket)
> EHS6-T LAN:
  > add. Ethernet interface (NAPT)
> EHS5T:
  > RS-485 and USB (B) 2.0 HS interface

DRIVERS

> USB, MUX driver for Microsoft® Windows XP™, Vista™
  and 7™
> RIL, USB driver for Microsoft® Windows Embedded
  Handheld™ >= 6.x
> MUX driver for Microsoft® Windows XP™, Vista™ and 7™

APPROVALS

> R&TTE, GCF, CE, FCC*, PTCRB*, IC*, UL
> AT&T* and other local approvals and provider
  Certifications *) EHS6-T only
> WEEE, EuP, RoHS and REACH compliant

For more information, please visit
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