

SIENA

Tiesse

innovazione made in Italy

GPRS/GSM TERMINAL ADAPTER



SIENA is a low cost and low power consumption system with 4 RS232 asynchronous serial lines and a GPRS/GSM interface for:

DATA AND ALARM COLLECTIONS

**AWP (*) (SOLT MACHINE)
CONTROL AND DATA COLLECTION**

GPRS POS GATEWAY

(*) Amusement With Price

APPLICATION AND SCENARIOS

Typical applications of Siena are:

Connection of **gaming terminals** (Amusements With Prizes, AWP) via serial lines, to allow a Data Centre Application to collect reading meter from AWP over the GPRS/GSM network.

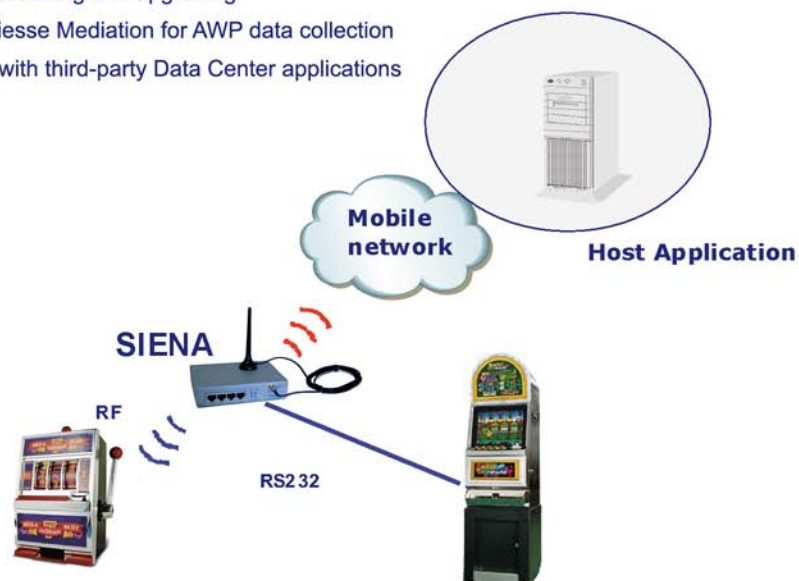
Connection of **POS** (Point of Sale Terminals) via serial line, to access the **EFT** Authorization Application over the GPRS network.

Collection of data and **alarms** from asynchronous devices and forwarding to a Control Center using the GPRS network.

Siena supports, over the serial lines, most popular asynchronous protocols (X.28, ACK-NACK, PPP, BT, Proprietary, etc.); the Host communication over GPRS can be via **TCP** or **UDP**

AWP—SLOT MACHINE

- Automatic discovery of connected AWP
- Detection of AWP disconnections
- Local polling and local acks to remote control messages
- Remote software configuration to cope with various and different AWP models
- Fully compliant with Tiesse NCC for administration and maintenance functions
- Remote software downloading and upgrading
- Fully compliant with Tiesse Mediation for AWP data collection
- Seamless integration with third-party Data Center applications

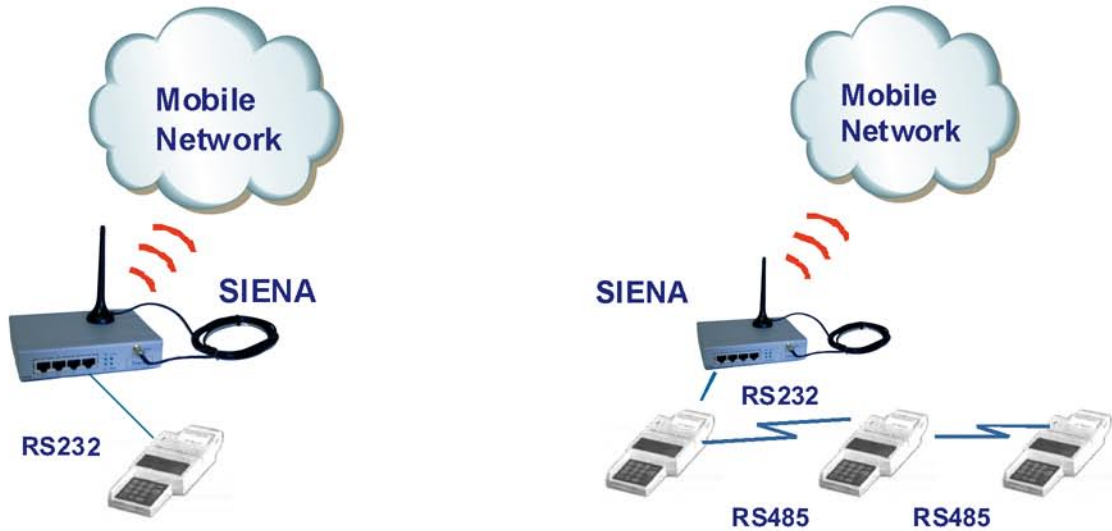


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POINT OF SALES TERMINALS

Point of Sales terminal can be connected to the serial port and Siena will forward data from POS to the authorization application via TCP/IP over GPRS/GSM and viceversa.
 SIENA support the most important POS protocols: HGEPOS, EMV, SPDH



Technical Features

Processor	Samsung S3C44BOX (ARM7TDMI) - 66MHz
DRAM Memory	Default 64 MB – Maximum 128 MB
Flash Memory	Default 16 MB – Maximum 64 MB
Boot Flash	512 kB
O.S.	uCLinux
Ports	
GPRS/GSM	Frequency band: Dual band EGSM 900 and GSM 1800 Compliant to GSM Phase 2/2+, Multislot class 8/10 connectivity, Mobile station class B DL transfer: max 85.6 kbps UL transfer: max 21.4 kbps AT Command GSM 07.07 e 07.05
Serial ports	4 RJ-45 ports
Protocols&applications	
AWP	Comma6
POS	X.28, HGEPOS, EMV, SPDH
Customizable Protocols for specific application	
Physical features	
Size	LxPxH mm 160x135x30
Power consumption	< 1W
Power	Switch Mode AC Adapter 5V 1,2A
Antenna	Swirvel external removable (SMA male)

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