

Tixi Alarm Modems

The Intelligent Modems for Any PLC



- ✓ Fault Messaging
- ✓ Remote Maintenance
- ✓ Data Logging
- ✓ Web Server/Web DB
- ✓ 56k/ISDN/GSM/GPRS/Ethernet/WLAN
- ✓ OEM Models

Tixi Modems communicate with any PLC
including:



Tixi Alarm Modem Technology

No More AT Commands – XML Modems for the Future!

Today's "dumb" modems are still controlled by the same primitive AT commands that were used 20 years ago! This has been a tremendous obstacle to telecommunication and Internet communication in industrial electronics.

The Tixi Modem System is based on a powerful 32-bit RISC CPU (ARM7) and the Tecom high-level remote communication system, which is configured using state-of-the-art XML technology.

Example of address book entries:

```
<AddressBook>
<Meyer>
  <Email _="Meyer@Firm.de"/>
  <SMS_No _="+49-174-1234567"/>
  <SMS_Provider _="D2"/>
  <Fax _="+49-89-1234567"/>
  <Express _="Meyer+49-89-1234567"/>
</Meyer>
<Schneider>
  <SMS_No _="+49-171-9876541"/>
  <SMS_Provider _="D1"/>
</Schneider>
</AddressBook>
```

Message template with variable installation and site information:

```
<UserTemplates>
<AlarmMsg30>
  <L _="Room temperature too high."/>
  <L _="Act. Temp.: {Temperature} °C"/>
  <Include _="/D/UserTemplates/SiteInfo"/>
</AlarmMsg30>
<SiteInfo>
  <L _="Installation: Super AC type 13"/>
  <L _="Building: Reichstag, R.2001"/>
  <L _="Site: Berlin, Germany"/>
</SiteInfo>
</UserTemplates>
```

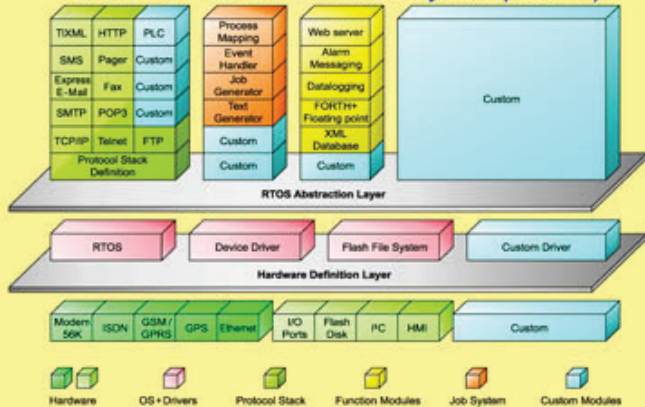
Definition of the message:

```
<MessageJobTemplates>
<EmailAlarm30 _="SMTP">
  <Recipient _="/D/AddressBook/Meyer"/>
  <Subject _="Room temperature over 30 °C !"/>
  <Body _="/UserTemplates/AlertMsg30"/>
  <ToDo _="Check installation within 30 min. !"/>
</EmailAlarm30>
<SMSAlarm30 _="SMS">
  <Recipient _="/D/AddressBook/Meyer"/>
  <Subject _="Room temperature over 30 °C! Reichstag, R. 2001, Berlin"/>
</SMSAlarm30>
</MessageJobTemplates>
```

The message definition contains references for the recipient in the address book, and to a template in the text database (UserTemplates) for the message text. This template in turn contains a reference to particular site information.

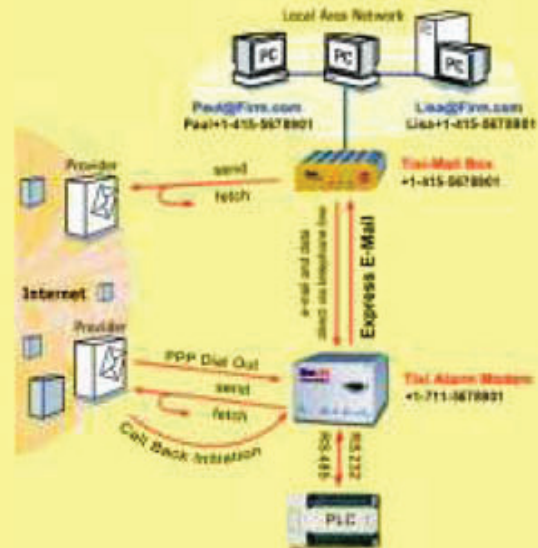
This example shows the highly flexible and future-oriented approach that XML offers for configuring Tixi Alarm Modems. It can also be used for the later configuration of alarm devices via the Internet (just imagine what this task would be like using AT commands!).

Tixi Embedded Communications System (TECom)



The Tixi TECom System was developed completely independently of any hardware or operating system and can now run on Windows 2000 and the MQX RTOS on the ARM7 of the Tixi Modem. Porting to other systems is easy to implement (e.g. Linux). OEM functions and protocols can be implemented in C/C++, FORTH or TIXML.

Telecontrol via Express E-Mail

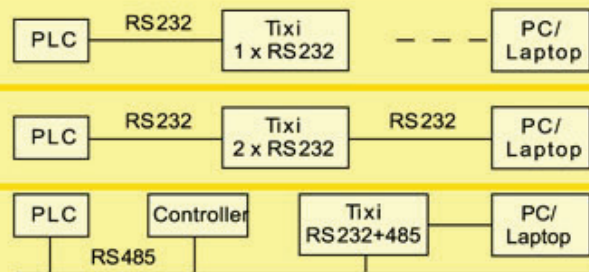


Telecontrol via e-mail?

Impossible, as the runtime of e-mails is completely uncertain if the recipient does not have a dedicated Internet line. However, Tixi Alarm Modems can always be reached via **Express E-Mail**. Although similar to Internet e-mails, their destination address consists of a name and the international telephone number. Communicate with a point-to-point connection directly via the telephone network quickly, securely and reliably.

Tixi Alarm Modems for Analog, ISDN or GSM

Aluminum housing	Top-hat rail housing	Type	Use
		Basic model with 1x RS232	For local use at the PLC
		Model with 2nd serial interface	Test and commissioning with the PLC
		Model with additional RS 485/422 and up to 128 I/Os	For devices at the RS 485 bus, for testing and operation



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