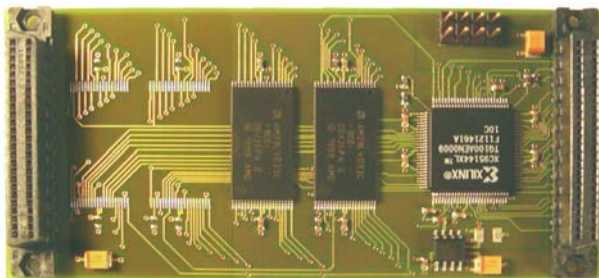# TIP250   8 Mbytes Flash Memory

Application Information

The TIP250 is an IndustryPack® compatible module that offers an easy and reliable way to implement 8 Mbytes of Flash memory. The TIP250 is ideal for holding application code, operating system software or data.

Two AM29LV033 devices (32 Mbit, x 8 organized) are used to provide 1 bank of 8 Mbytes (16 bit wide) Flash memory which is divided into 64 sectors of 128 Kbytes (16 bit wide).
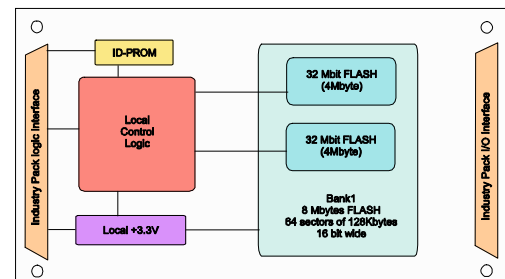

Accesses to the TIP250 Flash memory occur within the IP memory space. After power-on the TIP250 comes up in read only mode. The IP I/O space holds the Flash Control Register and the Interrupt Vector Register.

For First-Time-Buyers the Engineering Documentation TIP250-ED is recommended. The Engineering Documentation includes TIP250-DOC, schematics and data sheets.

Software Support (TIP250-SW-xx) is available for different operating systems.

Technical Information

❏ Interface according to IndustryPack specification
❏ Identification-PROM supports auto-configuration
❏ Single Size IndustryPack
❏ 8 Mbytes of Flash Memory
❏ Organized in 1 bank of 8 Mbytes (16 bit wide), 64 sectors of 128 Kbytes (16 bit wide)
❏ Flash chip: 2 x AM29LV033, 90 ns, TSOP package
❏ Guaranteed min. erase and program cycle endurance: 1.000.000 cycles
❏ Typical bank erase time: 45 s
❏ Typical sector erase time: 0.7 s
❏ Typical word programming time: 9 µs
❏ Typical bank programming time: 36 s
❏ Interrupt support on program / erase cycles
❏ Power requirements: +5V only, on board +3.3V generation
❏ No connections to IP I/O connector
❏ Operating temperature -40°C to +85°C

Order Information

RoHS Compliant
TIP250-10R   8 Mbytes Flash Memory

None RoHS Compliant
TIP250-10   None RoHS compliant version of TIP250-10R

Documentation
TIP250-DOC   User Manual
TIP250-ED   Engineering Documentation, includes TIP250-DOC

Software
TIP250-SW-25   Integrity Software Support
TIP250-SW-42   VxWorks Software Support (Legacy and VxBus-enabled Software Support)
TIP250-SW-65   Windows XP/XPE/2000 Software Support
TIP250-SW-72   LynxOS Software Support
TIP250-SW-82   LiNUX Software Support
TIP250-SW-95   QNX 6 Software Support
For other operating systems please contact TEWS.

TEWS TECHNOLOGIES GmbH keeps the right to change technical specification without further notice.   09/2009
All trademarks mentioned are property of their respective owners.

TEWS TECHNOLOGIES GmbH
Am Bahnhof 7   25469 Halstenbek, Germany
Phone: +49 (0) 4101 4058 0   Fax: +49 (0) 4101 4058 19
e-mail: info@tews.com   www.tews.com