



August 14, 2012

CN Number: 1213

CN Change Level: Minor

Subject: RT ProASIC3 Datasheet Updates

Dear Customer,

Microsemi has updated the RT ProASIC[®]3 datasheet to Revision 4. The latest version can be downloaded at www.microsemi.com/soc/documents/RTPA3_DS.pdf.

Some of the key updates in this revision include:

1. Extended flow (E flow) is added.
The E flow provides additional testing for space applications which require a higher level of screening. The E flow devices are available for ordering now.
2. Input leakage current, IIL and IIH, is updated from a conservative specification of 10 or 15 μ A to the existing production test limit of 5 μ A across a full range of military temperature.
The following Minimum and Maximum DC Input Levels tables are updated for all I/O standards: Table 2-32, Table 2-39, Table 2-46, Table 2-53, Table 2-60, Table 2-67, Table 2-72, Table 2-76, Table 2-81, Table 2-86, Table 2-91, Table 2-96, Table 2-101, Table 2-106, Table 2-111, Table 2-116, Table 2-121, Table 2-126, and Table 2-130.
3. LVPECL maximum VIL and VIH are corrected from 3.9 V to 3.6 V in Table 2-134 Minimum and Maximum DC Input and Output Levels.
4. FIFO Read and Write timing waveforms are added.
5. JTAG Pins – Recommendations for Flight are added in Table 3-2.

For a complete list of changes made in this revision of the RT ProASIC3 datasheet, refer to the List of Changes on page 5-1:

www.microsemi.com/soc/documents/RTPA3_DS.pdf

If you have any questions, please contact Microsemi's SoC Products Group ITAR Technical Support at soc_tech_itar@microsemi.com.

Regards,

Microsemi Corporation



Table 1 lists the affected part numbers.

Table 1 • Affected Part Numbers

| | | |
|------------------------|------------------------|--------------------|
| RT3PE600L-CG484B | RT3PE3000L-LG484B | RT3PE600L-CG484E |
| RT3PE600L-1CG484B | RT3PE3000L-1LG484B | RT3PE600L-1CG484E |
| RT3PE600L-CG484PROTO | RT3PE3000L-LG484PROTO | RT3PE600L-LG484E |
| RT3PE600L-1CG484PROTO | RT3PE3000L-1LG484PROTO | RT3PE600L-1LG484E |
| RT3PE600L-LG484B | RT3PE3000L-CG896B | RT3PE600L-CQ256E |
| RT3PE600L-1LG484B | RT3PE3000L-1CG896B | RT3PE600L-1CQ256E |
| RT3PE600L-LG484PROTO | RT3PE3000L-CG896PROTO | RT3PE3000L-CG484E |
| RT3PE600L-1LG484PROTO | RT3PE3000L-1CG896PROTO | RT3PE3000L-1CG484E |
| RT3PE600L-CQ256B | RT3PE3000L-LG896B | RT3PE3000L-LG484E |
| RT3PE600L-1CQ256B | RT3PE3000L-1LG896B | RT3PE3000L-1LG484E |
| RT3PE600L-CQ256PROTO | RT3PE3000L-LG896PROTO | RT3PE3000L-CG896E |
| RT3PE600L-1CQ256PROTO | RT3PE3000L-1LG896PROTO | RT3PE3000L-1CG896E |
| RT3PE3000L-CG484B | RT3PE3000L-CQ256B | RT3PE3000L-LG896E |
| RT3PE3000L-1CG484B | RT3PE3000L-1CQ256B | RT3PE3000L-1LG896E |
| RT3PE3000L-CG484PROTO | RT3PE3000L-CQ256PROTO | RT3PE3000L-CQ256E |
| RT3PE3000L-1CG484PROTO | RT3PE3000L-1CQ256PROTO | RT3PE3000L-1CQ256E |