



Dear valued customer,

Congratulations on your new TEA6017DK1005 programming kit from NXP Semiconductors, showcasing our TEA6017ATdev PFC + LLC controller IC and programming board. The TEA6017AT is the industrial market equivalent of the TEA2017AAT with improved driver performance, improved ESD performance and enhanced reliability. The TEA6017AT offers the leading solution for (server, industrial applications, computing, All-In-One, gaming, 4K/8K LED TV, etc.) power supplies. The IC's high level of integration allows easy design of a compact size, highly efficient and reliable power supply with a very low number of external components. A power supply using the TEA6017AT provides a very low no-load input power (< 75 mW; total system including the TEA6017 / TEA2095 combination) and high efficiency from minimum to maximum load.

Included in the box are TEA6017ATdev samples and a TEA20xx_Socket_DB1586 programming board. The guide further contains a link to product pages, user manuals, datasheets, application notes and brochures.

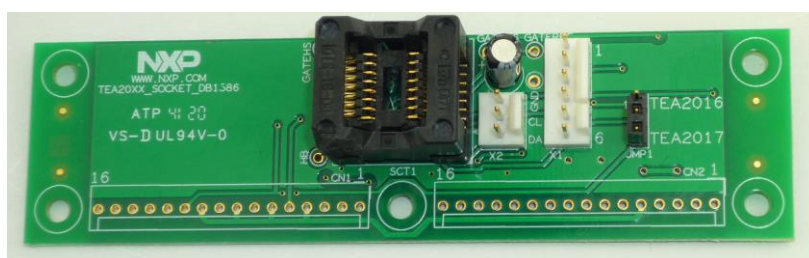
To find out more, check out the TEA6017 product information page and learn more about the complete range of GreenChip solutions on the NXP website: <https://www.nxp.com/products/power-management/ac-dc-solutions>

Best Regards,

The NXP Smart Power Team

The development kit contains:

- [1] TEA20xx_SOCKET_DB1586: TEA6017 Programming board (SO16 socket)



- [2] 20 IC's TEA6017ATdev



WARNING: Lethal voltage and fire ignition hazard - The unshielded high voltages that are present when operating this product, constitute a risk of electric shock, personal injury, death and/or ignition of fire. This product is intended for evaluation purposes only. It shall be operated in a designated test area by personnel that is qualified according to local requirements and labour laws to work with unshielded mains voltages and high-voltage circuits. This product shall never be operated unattended.

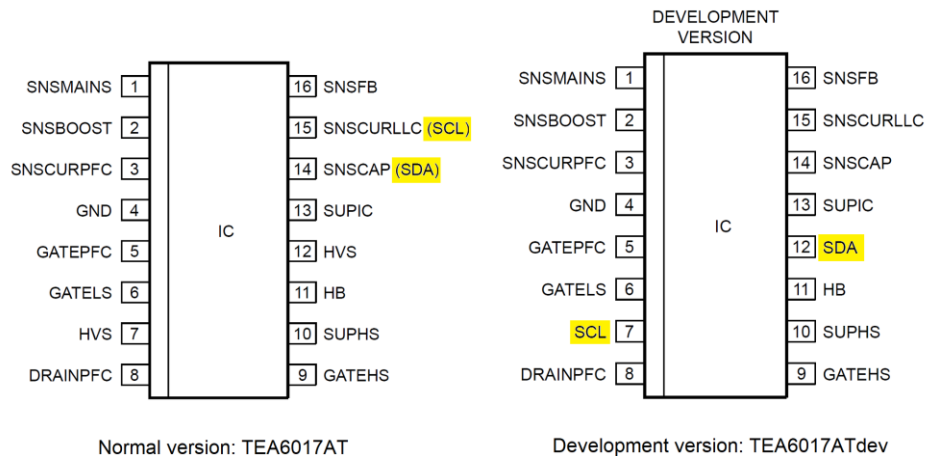
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Disclaimer: Safety - The unshielded high voltages that are present when operating this product, constitute a risk of electric shock, personal injury, death and/or ignition of fire. This product is intended for evaluation purposes only. It shall be operated in a designated test area by personnel that is qualified according to local requirements and labour laws to work with unshielded mains voltages and high-voltage circuits. The product does not comply with IEC 60950 based national or regional safety standards. NXP does not accept any liability for damages incurred due to inappropriate use of this product or related to the unshielded high voltages. Any use of this product is at customer's own risk and liability. The customer shall fully indemnify and hold harmless NXP from any liability, damages claims resulting from the use of the product.



Development kit quick start guide:

Type: TEA6017DK1005
GreenChip TEA6017ATdev samples and TEA20xx_Socket_DB1586 programming board.
12nc: 9354 397 74598



The High Voltages Spacer (HVS) pin of the TEA6017ATdev (development) samples are used for I²C communication. This enables I²C communication with the TEA6017 in a live application.

Both TEA6017AT and TEA6017ATdev samples can be programmed by means of the TEA20xx_Socket_DB1586 board + I²C interface (RDK01DB1563). The selector switch on the I²C interface must be set in the right position prior to programming TEA6017AT or TEA6017ATdev samples. The programming software for the TEA6017AT is the same as for the TEA2017AAT. The TEA20xx_Socket_DB1586 board also contains a jumper to enable programming of TEA2016 samples.



Note: The latest updates and info for the TEA6017 can be found on the NXP website:
<https://www.nxp.com/products/power-management/ac-dc-solutions/ac-dc-controllers-with-integrated-pfc>