



UM11522

RDK01DB1561 programming kit quick start guide

Rev. 1 — 19 November 2020

User manual

Document information

Information	Content
Keywords	TEA2016AATdev, TEA2016DB1561, RDK01DB1561, programming kit, quick start guide
Abstract	This quick start guide describes how to get started with the RDK01DB1561 programming kit



Revision history

Rev	Date	Description
v.1	20201119	Initial version

1 Introduction

Congratulations on your new RDK01DB1561 programming kit from NXP Semiconductors, showcasing our TEA2016AATdev PFC + LLC controller IC and programming board. The TEA2016AAT offers the leading solution for (computing, all-in-one, gaming, 4K/8K LED TVs, LED lighting, and so on) power supplies. The high level of integration of the IC 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 TEA2016AAT provides a very low no-load input power (< 75 mW; total system including the TEA2016/TEA2095 combination) and high efficiency from minimum to maximum load.

Included in the box are 50 pieces of TEA2016AATdev samples and a TEA2016DB1561 programming board. The guide also contains a link to product pages, user manuals, datasheets, application notes, and brochures.

To find out more, check out the TEA2016 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

WARNING

Lethal voltage and fire ignition hazard



The non-insulated 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 qualified according to local requirements and labor laws to work with non-insulated mains voltages and high-voltage circuits. This product shall never be operated unattended.

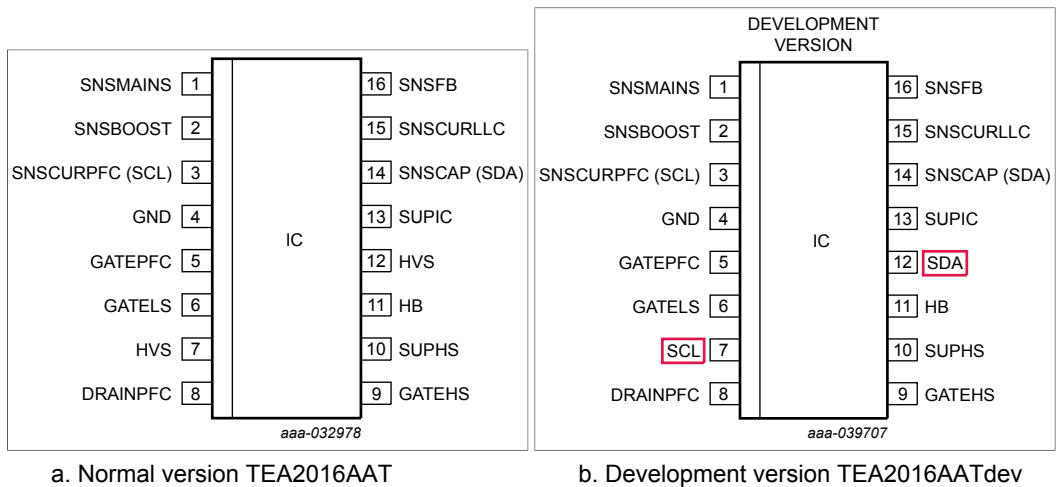
2 Programming quick start guide

Type: RDK01DB1561 GreenChip TEA2016AATdev samples and TEA2016DB1561 programming board

12nc: 935402969598

Documentation: <https://www.nxp.com/products/power-management/ac-dc-solutions/ac-dccontrollers-with-integrated-pfc/digital-controller-for-high-efficiencyresonant-power-supply:TEA2016AAT>

IC connections:



Please note that for the TEA2016AATdev (development) samples, the high-voltages spacer pins are used to connect directly to the I²C interface in the IC. By connecting these pins via the TEA2016 USB-I²C interface (not included) to the PC/GUI, parameters can be programmed directly in a live application. Samples can also be soldered on the TEA2016DB1561 board for programming or a SO16 socket can be placed (not included).



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