TLE9012DQU_DTR_BMS2 NEW

TLE9012DQU Evaluation Board

Overview
The evaluation board features the Li-Ion battery monitoring and sensing IC **TLE9012DQU (/cms/en/product/battery-management-ics/tle9012dqu/)** based on distributed architecture including cabling and necessary SW for Infineon **AURIX™ Microcontroller (/cms/en/product/microcontroller/32-bit-tricore-microcontroller/)**.

Summary of Features

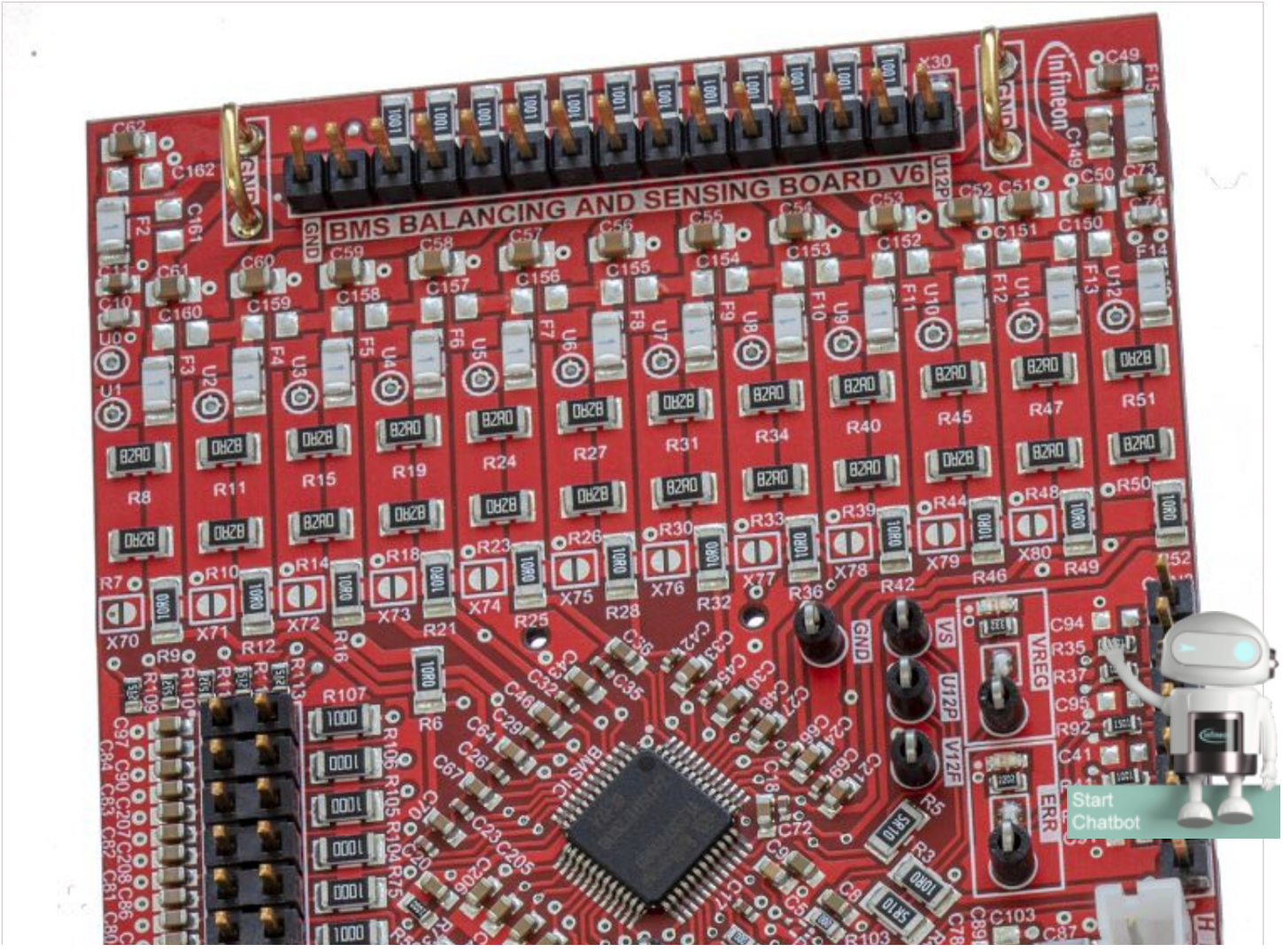
- Connection LED for easy debugging
- Easy connection to transceiver or additional slave in the daisy chain
- Cables included for fast set up
- Wide supply range up to 75V input voltage
- Integrated resistor divider for use with DC supply
- Integrated dummy resistors for temperature measurement emulation

Benefits

- Best in class voltage measurement accuracy: Reliable and precise battery cell monitoring for highly accurate SoC and SoH
- high performance: communication interface supporting scalable battery topologies with and without electrical isolation;
- Peak Robustness: Infineon technology guarantees best performances under noise
- Lowest system cost: Small package (TQFP-48) & high feature integration for a lean external BOM

Potential Applications

- Battery Electric Vehicle (BEV)
- Mild Hybrid Electric Vehicle (MHEV)
- Hybrid Electric Vehicle (HEV)
- Plug-in Hybrid Electric Vehicle (PHEV)
- 12V Li-Ion battery systems
- Energy Storage System (ESS)
- Home Energy Storage system
- eBike battery management system



Parametrics

Parametrics	**TLE9012DQU_DTR_BMS2**
Family	Battery Management ICs
Input Type	DC (enabled to work with actual cells)
Product Description	Evaluation Board including TLE9012DQU sensing IC
Qualification	Automotive
Supply Voltage min max	4.75 V 60 V
Target Application	xEV, Energy Storage, eBike, etc.
Topology	Distributed BMS systems

Documents
› Login (/sec/login?ret=https%3A%2F%2Fwww.infineon.com%2Fcms%2Fen%2Fproduct%2Fevaluation-boards%2Ftle9012dqu_dtr_bms2%2F%23!documents)
to myInfineon to see all documents available

User Manual

TLE9012DQU_DTR_BMS2 User Manual (/dgdl/Infineon-Infineon-Infineon-TLE9012DQU_TLE9015DQU-UM-v01_00-EN-UserManual-v01_00-EN-UserManual-v01_00-EN.pdf?fileId=8ac78c8c7f2a768a017f31a598850348)
› EN (/dgdl/Infineon-Infineon-Infineon-TLE9012DQU_TLE9015DQU-UM-v01_00-EN-UserManual-v01_00-EN-UserManual-v01_00-EN.pdf?fileId=8ac78c8c7f2a768a017f31a598850348)

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Sales Product Name	**TLE9012DQU_DTR_BMS2**
OPN Info	TLE9012DQUDTRBMS2TOBO1
Product Status	active and preferred
Infineon Package name	--
Standard Package name	
Order online	
Completely lead free	
Halogen free	
RoHS compliant	no
Packing Size	1
Packing Type	CONTAINER
Moisture Level	
Moisture Packing	NON DRY

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