

RTH-K3 – CAN/LIN

RTH-K9 – CAN-FD

Serial Trigger and Decode



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New Application Option: RTH-K3 / RTH-K9

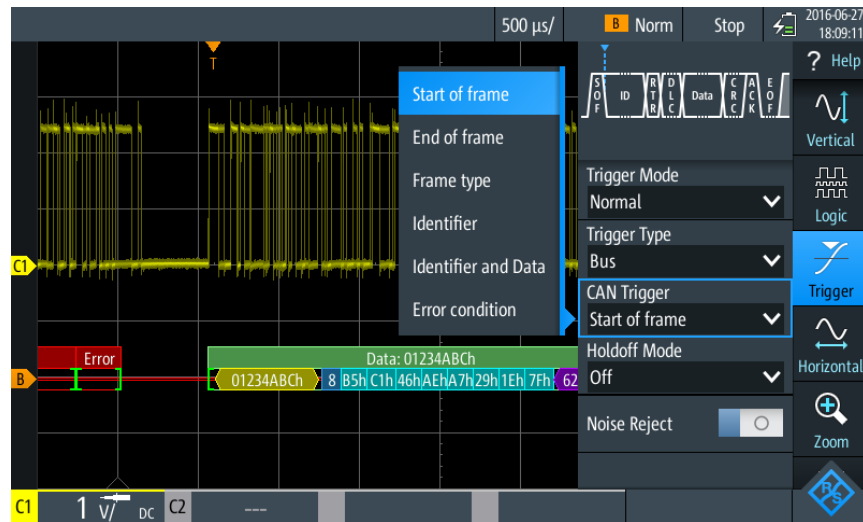
CAN/LIN and CAN-FD Serial Protocol Trigger and Decode (T&D)

■ Key Benefits

- Fast decoding and hardware protocol trigger generation (fully digital T&D implementation)
- Symbolic labels and symbolic decode (based on .dbc, .csv and .ptt label files)
- Dedicated decode memory for serial protocol data not sacrificing std acquisition memory
- Operates on analog or digital (MSO) channels
- Capture long protocol sequences when used with RTH-K15 history mode

■ Applications

- Embedded design and debugging in various industries like: Automotive, robotics, medical technology, construction equipment, A&D, etc



New Application Option: RTH-K3 / RTH-K9 Easy Protocol Configuration



(single-press) to enable
(long-press) to open config menu

Source, Polarity and predefined or user defined thresholds



Source	C1	Polarity	CAN_L	Threshold	1.711 V
CAN Standard		CAN FD Standard		Technology	
CAN FD		ISO		User	
Arbitration Bit Rate		Predefined Bit Rates		Sample Point	
50 kbps		50 kbps		75 %	
Data Bit Rate		Predefined Bit Rates		Sample Point	
50 kbps		50 kbps		75 %	
Back					

Switch between CAN and CAN-FD



User defined / predefined bit rate



User defined sample point



Start of Frame	
0 % Sample Point 100 %	
State	
CAN	
Display Format	
Hexadecimal	
Config	
Trigger	
Display Labels	
Symbolic Decode	
Load Label List	
Show Label List (9)	
Remove Label List	



Press to enable / config protocol trigger



Show labels*



Import .dbc, .csv or .ptt label lists



Label list handling



*Will be available in next FW-Release (1.40)

New Application Option: RTH-K3 / RTH-K9

Powerful Protocol Trigger

SETUP to configure protocol trigger

Select from imported label lists

ID Type	ID Value	Label
29 bit	[hex]03B1C002	Airbag_Status
11 bit	[hex]1E5	EngineData: - EngForce (N) - EngPower (kW) - EngSpeed (rpm) - EngTemp (degC) - IdleRunning - PetrolLevel (l)
		Ignition_Info: - StarterKey
		Left break
		NM_Gateway
		Right break
29 bit	[hex]01234ABC	TP_Console
11 bit	[hex]314	TemperatureCan
11 bit	[hex]1BC	
11 bit	[hex]064	

Back

Start of frame
End of frame
Frame type
Identifier
Identifier and Data
Error condition

11 bit

Trigger Mode
Normal

Trigger Type
Bus

CAN Trigger
Identifier and Data

Identifier Pattern
[hex]064

Identifier Relation
Equal

Identifier from Label

Data Pattern
[hex]D0 E7 20

Data Relation
Equal

Holdoff Mode
Off

Noise Reject

Select protocol part to trigger on

Pattern and relation for "identifier"

Select from imported label lists

Pattern and relation for "data"