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Application Software Bundles

FOR 4, 5 & 6 SERIES MSOs





Application Bundles

MONEY SAVING BUNDLES FOR THE 4, 5 AND 6 SERIES MSOs

Application bundles are a great alternative to purchasing individual options, especially if you plan to address diverse applications with your oscilloscope. Compared to individual options, these specially designed bundles:

- Offer better value with more functions at a much lower cost than equivalent individual options
 - Make it cost-effective to purchase capabilities to cover future needs or needs across engineering teams
 - Include the most frequently combined options for key applications and industries
-

Three Levels of Application Bundles

Starter Bundle

These bundles add capabilities that almost all engineers need for embedded systems design.

4, 5 or 6 Series MSOs equipped with a Starter Bundle (for example, 4-STARTER-FL) will be able to decode and trigger on I2C, SPI, RS232/422/485/UART bus activity as well as power measurements and analysis. Includes an integrated arbitrary/function generator with 13 predefined functions and arbitrary waveforms. This is equivalent to adding -AFG, -SRCOMP, -SREMBD and -PWR options.

Pro Bundles

Specially designed to empower engineers in particular applications and industries.
See pages 4 through 9 for details on specific bundles

Any Pro Bundle includes the capabilities enabled with the **Starter Bundle + Extended record length** to help you take better advantage of advanced analysis capabilities.

Serial Decode (4, 5, 6 Series)	Power (4, 5, 6 Series)	Signal Integrity (5, 6 Series)	Standards Compliance (5, 6 Series)	Automotive (4, 5, 6 Series)	Aerospace (4, 5, 6 Series)
A comprehensive kit of serial protocol support for embedded systems. Eliminates the need to decode by hand.	Automates a wide range of power measurements – from the AC line to point of load.	Essential tools for engineers analyzing jitter and signal integrity of high-speed clocks and data lines.	Comprehensive test automation with full instrument control and reporting for testing to the leading serial standards.	For ECU designers – decoding for automotive protocols, and automated compliance testing for key communications standards.	Serial bus decoding for key aerospace protocols and mask testing for testing unique signals.

Ultimate Bundle

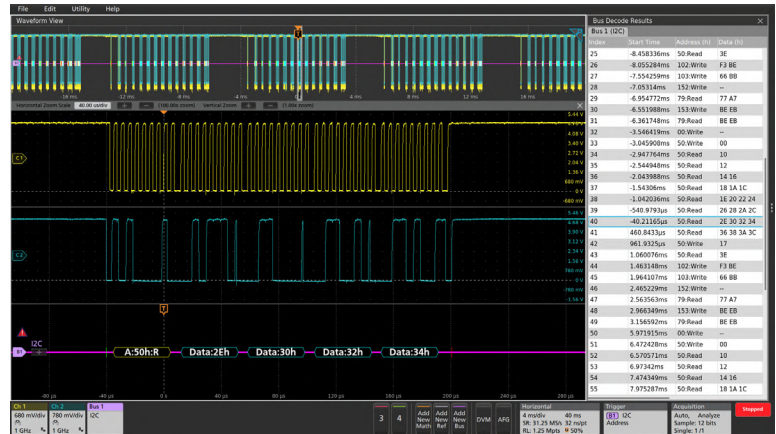
Everything listed above for the most capabilities and highest savings.

All of the capabilities of the Starter Bundle + All capabilities of ALL Pro Bundles.

Spectrum View RF vs. time waveforms + Extended Spectrum View capture bandwidth.
Video triggering.
Maximum available record length for the 5 and 6 Series MSOs.

Pro Bundle | Serial Decode

A comprehensive kit of serial protocol support for embedded systems. These options automate bus decoding, eliminating the chore of hand decoding. Search capability makes it easy to zero in on specific bus activity.

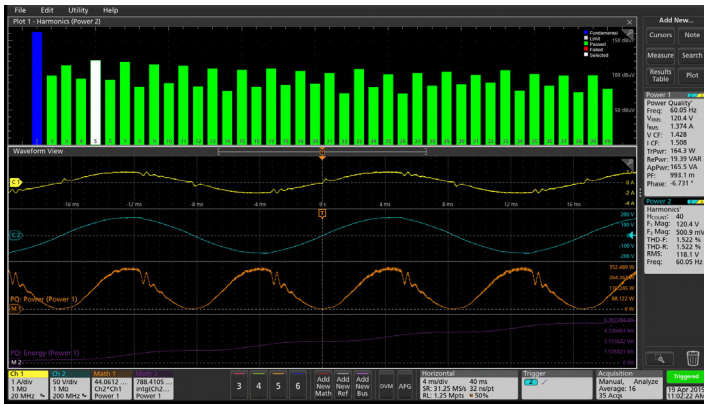


Automated serial decoding provides system-level visibility without hand decoding.

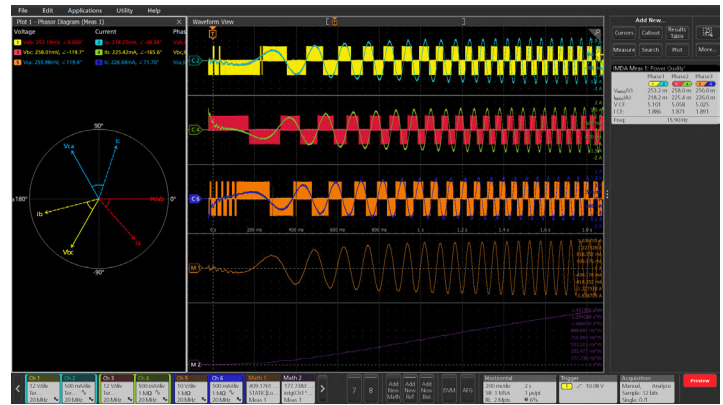
Included	Description	4 Series MSO	5 Series MSO	6 Series MSO
Starter Bundle	Embedded serial decode/trigger and integrated AFG (See page 3 for details.)	●	●	●
4-RL-1	Extend record length to 62.5 million sample points per channel	●		
5-RL-125M	Extend record length to 125 million sample points per channel		●	
6-RL-2	Extend record length to 250 million sample points per channel			●
PWR	Advanced power measurements and analysis	●	●	●
RFNFC	NFC serial decoding and analysis	●	●	●
SR8B10B	8B10B serial decoding and analysis		●	●
SRAERO	Aerospace serial bus triggering and analysis (MIL-STD-1553, ARNIC 429)	●	●	●
SRAUDIO	Audio serial triggering and analysis (I2S, LJ, RJ, TDM)	●	●	●
SRAUTO	Automotive serial triggering and analysis (CAN, CAN FD, CAN XL, LIN, FlexRay)	●	●	●
SRAUTOEN1	100BASE-T1 protocol decode and analysis		●	●
SRAUTOSEN	SENT serial decoding and analysis	●	●	●
SRCPHY	MIPI C-PHY X.X (CSI-2/DSI-2) serial decoding and analysis		●	●
SRCXPI	CXPI serial decoding and analysis	●	●	●
SRDPHY	MIPI D-PHY 1.2 (CSI/DSI) decoding and analysis		●	●
SRENET	Ethernet serial triggering and analysis (10BASE-T, 100BASE-T)	●	●	●
SRESPI	eSPI serial decoding and analysis	●	●	●
SRETHERCAT	EtherCAT serial decoding and analysis	●	●	●
SREUSB2	eUSB 2.0 serial decoding and analysis	●	●	●
SRI3C	I3C serial decoding and analysis	●	●	●
SRMANCH	Manchester serial decoding and analysis	●	●	●
SRMDIO	MDIO serial decoding and analysis	●	●	●
SRNRZ	NRZ serial decoding and analysis	●	●	●
SRONEWIRE	1-Wire serial decoding and analysis	●	●	●
SRPCIE321	PCIe Gen 1, 2, 3 serial decoding and analysis		●	●
SRPM	Power management serial triggering and analysis (SPMI)	●	●	●
SRPSI5	PSI5 serial decoding and analysis	●	●	●
SRSDLC	SDLC serial decoding and analysis	●	●	●
SRSMBUS	SMBus serial decoding and analysis	●	●	●
SRSPACEWIRE	Spacewire serial decoding and analysis	●	●	●
SRSVID	SVID serial triggering and analysis	●	●	●
SRUSB2	USB 2.0 serial triggering and analysis (LS, FS, HS)	●	●	●
SRUSB3	USB 3.0 serial decode and analysis (USB 3.0)			●
Permanent Licenses		4-PRO-SERIAL-FL	5-PRO-SERIAL-FL	6-PRO-SERIAL-FL

Pro Bundle | Power

Automates a wide range of power measurements - from the AC line to point of load. Also includes decoding for popular power management buses.



Automate common measurements such as true power, apparent power, reactive power, power factor and many more.

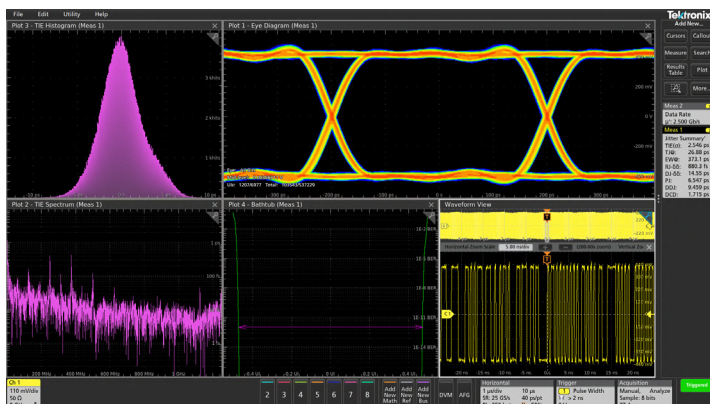


5 and 6 Series MSOs support advanced 3-phase motor drive analysis.

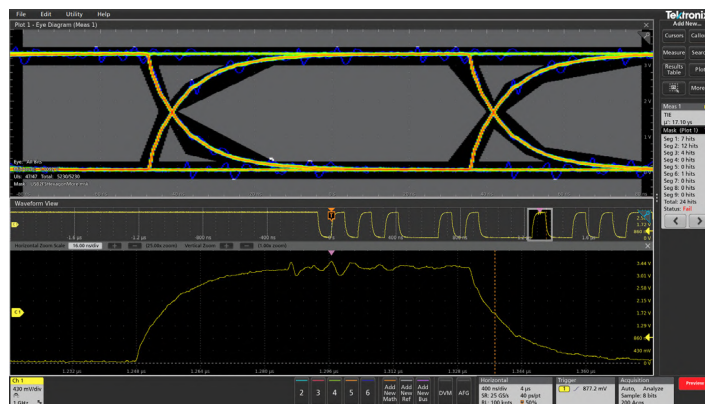
Included	Description	4 Series MSO	5 Series MSO	6 Series MSO
Starter Bundle	Embedded serial decode/trigger and integrated AFG (See page 3 for details.)	●	●	●
4-RL-1	Extend record length to 62.5 million sample points per channel	●		
5-RL-125M	Extend record length to 125 million sample points per channel		●	
6-RL-2	Extend record length to 250 million sample points per channel			●
3PHASE	3-Phase power analysis	●		
DPM	Digital power management and analysis		●	●
IMDA	3-Phase inverters, motors and drives analysis		●	●
IMDA-DQ0	DQ0 measurements for IMDA		●	●
IMDA-MECH	Mechanical measurements for IMDA		●	●
PDN	Power delivery network measurements for control loop stability, minimizing power rail noise, and analysis of power supply induced jitter.	●	●	●
PWR	Advanced power measurements and analysis	●	●	●
SRPM	SPMI serial bus triggering and analysis	●	●	●
SRSVID	SVID serial bus triggering and analysis	●	●	●
TDR	Time domain reflectometry (TDR) measurements and analysis	●	●	●
WBG-DPT	Wide bandgap SiC/GaN double pulse test measurements	●	●	●
Permanent Licenses		4-PRO-POWER-FL	5-PRO-POWER-FL	6-PRO-POWER-FL

Pro Bundle | Signal Integrity

Essential tools for engineers validating and troubleshooting high-speed clocks and data lines. Quickly measure and deconstruct jitter. Automatically evaluate signal shapes and measurement limits with mask and limit testing.



Get a fast overview of jitter with the jitter summary measurement.



Mask and limit tests automate pass / fail signal testing.

Included	Description	5 Series MSO	6 Series MSO
Starter Bundle	Embedded serial decode/trigger and integrated AFG (See page 3 for details.)	●	●
5-RL-125M	Extend record length to 125 million sample points per channel	●	
6-RL-2	Extend record length to 250 million sample points per channel		●
DBDDR3	DDR3/LPDDR3 analysis and debug solution		●
DBLVDS	Automated LVDS test solution*	●	●
DJA	Advanced jitter analysis	●	●
MTM	Mask and limit testing	●	●
PAM3	PAM3 signal analysis*	●	●
PWR	Advanced measurements and analysis	●	●
SIM	Signal Integrity Modeling—base license (includes de-embedding, embedding, and core analysis tools)	●	●
TDR	Time domain reflectometry (TDR) measurements and analysis	●	●
UDFLT	User-defined filter creation tool	●	●
Permanent Licenses		5-PRO-SIGNAL-FL	6-PRO-SIGNAL-FL

*Requires optional solid-state drive with Windows operating system (5-WIN / 6-WIN)

Pro Bundle | Standards Compliance

Includes all currently available compliance options for your Windows®-equipped 5 or 6 Series MSO. All standards use the TekExpress engine for flexible configuration, full instrument control, informative prompts and comprehensive reporting.



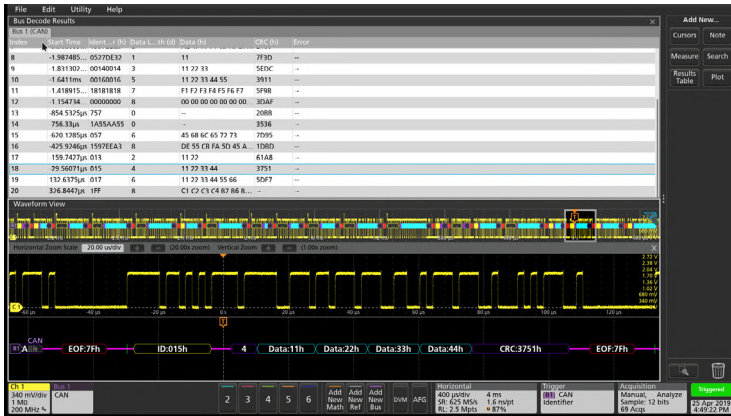
Run all tests specified in the standard, or selected tests. Automatic report generation gives you a jump on documentation.

Included	Description	5 Series MSO	6 Series MSO
Starter Bundle	Embedded serial decode/trigger and integrated AFG (See page 3 for details.)	●	●
5-RL-125M	Extend record length to 125 million sample points per channel	●	
6-RL-2	Extend record length to 250 million sample points per channel		●
CMCPHY20	MIPI C-PHY 2.0 TX compliance testing (requires Opt. DJA)*		●
CMDPHY21	MIPI D-PHY 2.1 conformance testing (requires Opt. DJA)*		●
CMENET	Ethernet (10/100/1000BASE-T) compliance testing*	●	●
CMENETML	Multilane Ethernet option for CMENET (10/100/1000BASE-T)*	●	●
CMINDUEN10	Industrial Ethernet (10BASE-T1L Long reach) automated compliance testing*	●	●
CMUSB2	USB2 automated compliance testing*	●	●
CMDDR3	DDR3 automated compliance testing*		●
CMDPHY	D-PHY-Tx 1.2 automated compliance testing*		●
CMNBASET	NBASE-T automated compliance testing*		●
CMXGBT	XGbT automated compliance testing*		●
DBDDR3	DDR3/LPDDR3 analysis and debug*		●
DJA	Advanced jitter analysis	●	●
PWR	Advanced power measurements and analysis	●	●
Permanent Licenses		5-PRO-COMPL-FL	6-PRO-COMPL-FL

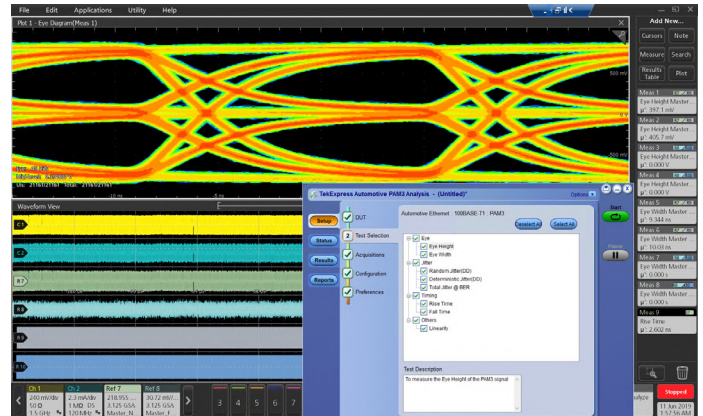
*Requires optional solid-state drive with Windows operating system (5-WIN / 6-WIN)

Pro Bundle | Automotive

Especially for ECU designers, this bundle provides outstanding system visibility for validations and troubleshooting. It includes support for important automotive protocols, and serial standards compliance testing and debugging.



Automated decoding and triggering speeds debug.



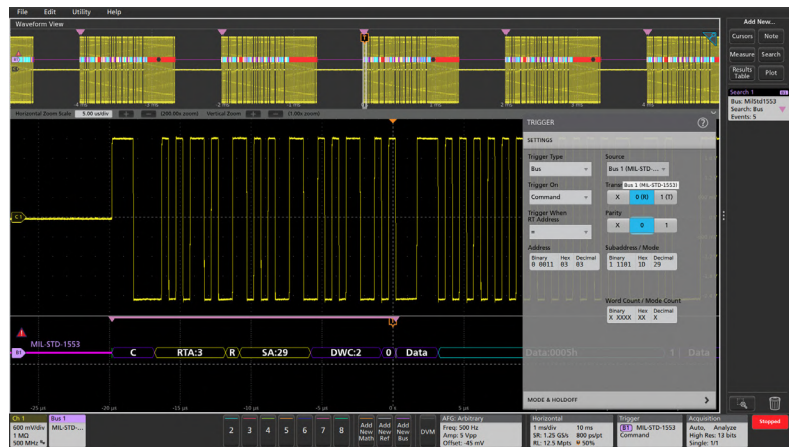
Unique signal separation for Automotive Ethernet on 5 and 6 Series MSOs.

Included	Description	4 Series MSO	5 Series MSO	6 Series MSO
Starter Bundle	Embedded serial decode/trigger and integrated AFG (See page 3 for details.)	●	●	●
4-RL-1	Extend record length to 62.5 million sample points per channel	●		
5-RL-125M	Extend record length to 125 million sample points per channel		●	
6-RL-2	Extend record length to 250 million sample points per channel			●
AUTOEN-SS	Signal separation for 100/1000BASE-T1 signals*		●	●
CMAUTOEN	Automotive Ethernet (100/1000BASE-T1) automated compliance testing*		●	●
CMAUTOEN10	Automotive Ethernet (10BASE-T1S Short Reach) automated compliance testing*		●	●
CMAUTOEN10G	Multi-Gigabit Ethernet (2.5G/5GBASE-T1) automated compliance testing*			●
CMDPHY	D-PHY-Tx 1.2 automated compliance testing*			●
CMDPHY21	MIPI D-PHY 2.1 conformance testing			●
DJA	Advanced jitter analysis		●	●
IMDA	3-phase inverters, motors and drives analysis		●	●
IMDA-DQ0	DQ0 measurements for IMDA		●	●
IMDA-MECH	Mechanical measurements for IMDA		●	●
PAM3	PAM3 signal analysis*		●	●
PWR	Advanced power measurements and analysis	●	●	●
SRAUTO	Automotive serial decoding, triggering and analysis (CAN, CAN FD, CAN XL, LIN, FlexRay)	●	●	●
SRAUTOEN1	100BASE-T1 protocol decode and analysis		●	●
SRAUTOSEN	SENT serial decoding and analysis	●	●	●
SRCXPI	CXPI serial decoding and analysis	●	●	●
SRI3C	I3C serial decoding and analysis	●	●	●
SRPSI5	PSI5 serial decoding and analysis	●	●	●
WBG-DPT	Wide bandgap SiC/GaN double pulse test measurements	●	●	●
Permanent Licenses		4-PRO-AUTO-FL	5-PRO-AUTO-FL	6-PRO-AUTO-FL

*Requires optional solid-state drive with Windows operating system (5-WIN / 6-WIN)

Pro Bundle | Aerospace

Includes serial bus decoding for protocols used in the aerospace industry, as well as support for generic encoding schemes such as NRZ and Manchester. Mask and limit testing make it easy to automate testing of unique signals.



Gain fast visibility into aerospace systems.

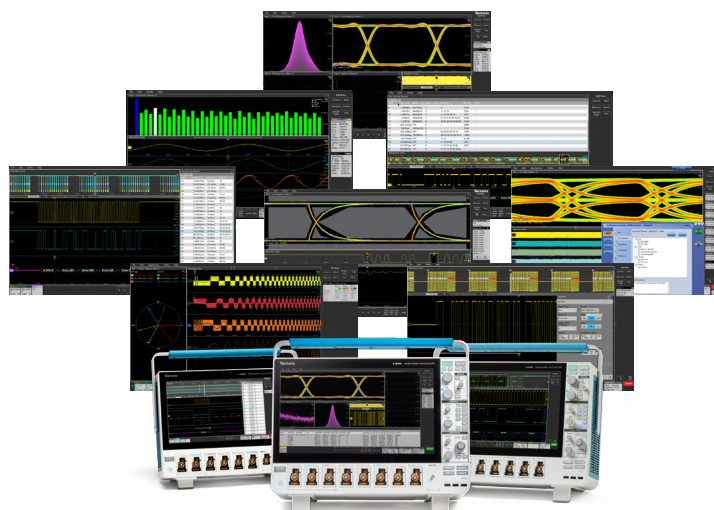
Included	Description	4 Series MSO	5 Series MSO	6 Series MSO
Starter Bundle	Embedded serial decode/trigger and integrated AFG (See page 3 for details.)	●	●	●
4-RL-1	Extend record length to 62.5 million sample points per channel	●		
5-RL-125M	Extend record length to 125 million sample points per channel		●	
6-RL-2	Extend record length to 250 million sample points per channel			●
DJA	Advanced jitter analysis		●	●
PWR	Advanced power measurements and analysis	●	●	●
MTM	Mask and limit testing	●	●	●
SRAERO	Aerospace serial bus triggering and analysis (MIL-STD-1553, ARINC 429)	●	●	●
SRMANCH	Manchester serial decoding and analysis	●	●	●
SRNRZ	NRZ serial bus decoding and analysis	●	●	●
SRSPACEWIRE	SpaceWire serial bus decoding and analysis	●	●	●
Permanent Licenses		4-PRO-AERODEF-FL	5-PRO-AERODEF-FL	6-PRO-AERODEF-FL

Ultimate Bundle

The Ultimate Bundle offers the most capabilities and the highest savings in a single package.

It includes:

- All the capabilities of the Starter Bundle, including embedded serial decode/trigger and integrated AFG
- All the capabilities of **ALL Pro Bundles**
- Increased record length on the 5 and 6 Series MSOs, – 500 Mpoints on the 5 Series MSO or 1 Gpoints on the 6 Series MSO.
- Wideband, synchronized spectrum analysis
 - Spectrum View RF vs. time waveforms and triggering
 - Expanded spectrum capture bandwidth
- Video triggering



Included	Description	4 Series MSO	5 Series MSO	6 Series MSO
Starter Bundle	4, 5 or 6 Series MSOs equipped with a Starter Bundle (for example, 4-STARTER-FL) will be able to decode and trigger on I2C, SPI, RS232/422/485/UART bus activity as well as power measurements and analysis. Includes an integrated arbitrary/function generator with 13 predefined functions and arbitrary waveforms. This is equivalent to adding -AFG, -SRCOMP, -SREMBD and -PWR options.	●	●	●
ALL Pro Bundles	Serial Decode	●	●	●
	Power	●	●	●
	Signal Integrity		●	●
	Standards Compliance		●	●
	Automotive	●	●	●
	Aerospace	●	●	●
These Additional Features	Spectrum View RF vs Time waveforms and triggering	●	●	●
	Extended Spectrum View capture bandwidth	●	●	●
	Video triggering	●	●	●
	Extend record length to 500 Mpoints per channel		●	
	Extend record length to 1 Gpoints per channel			●
Permanent Licenses		4-ULTIMATE-FL	5-ULTIMATE-FL	6-ULTIMATE-FL

For more information, pricing, and to determine which Application Bundle is right for your needs **please contact your local Tektronix account manager.**

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