



# Application Software Bundles

FOR 4, 5 & 6 SERIES MSOs





# Application Bundles

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

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**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
  - Provide flexibility to adjust year-to-year with lower cost 1-year subscriptions
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# 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-PER) will be able to decode and trigger on I<sup>2</sup>C, SPI, RS-232/422/485/UART bus activity. Includes an integrated arbitrary/function generator with 13 predefined functions and arbitrary waveforms. This is equivalent to adding -AFG, -SRCOMP and -SREMBD 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.

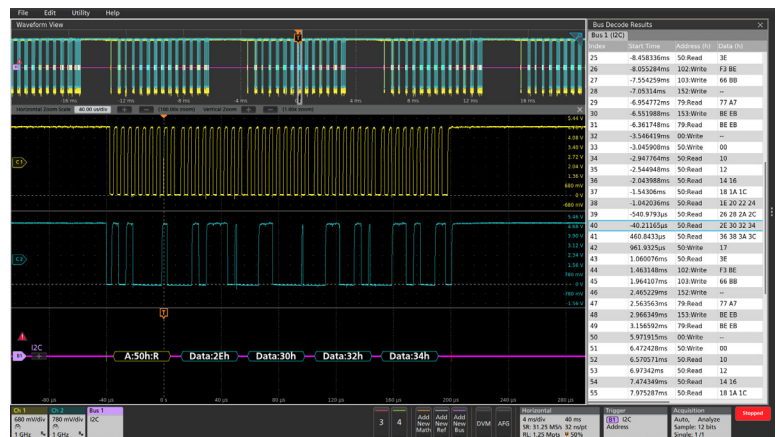
Maximum available record length for the 5 and 6 Series MSOs.

## License Choices To Fit Your Needs

<b>1-year time-based License</b>	This low-cost alternative lets you use the software for 1 year. Software updates and support are included. When the license expires a new license may be purchased.
<b>Perpetual License</b>	Use the software indefinitely. The license does not expire and includes updates/support for the first 12-months.
<b>Maintenance License</b>	Maintenance licences may be added to a perpetual license and extends the period of support of an original perpetual license for 12 months.

# 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.

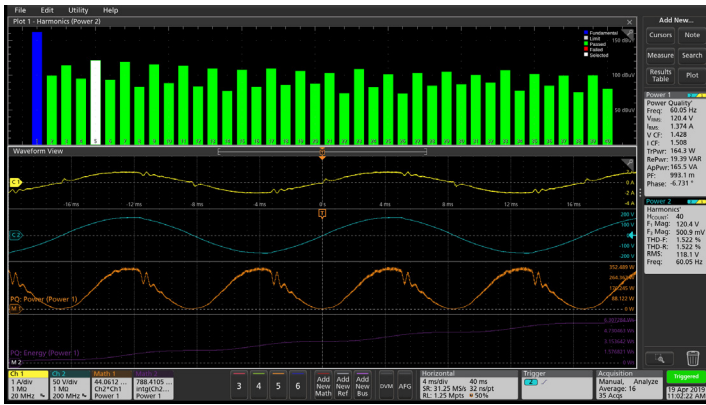


Automated serial decoding provides system-level visibility without hand decoding.

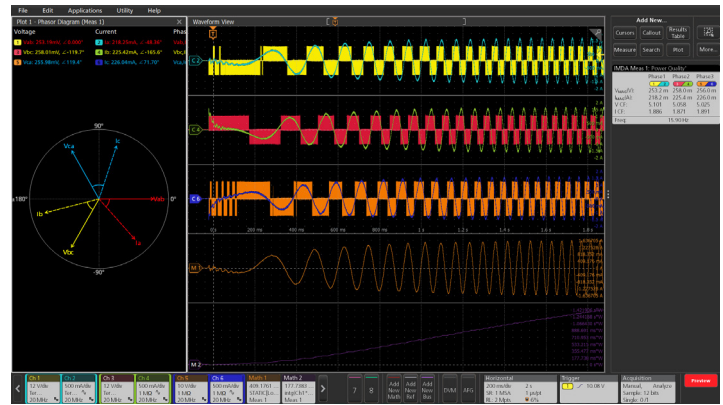
Included	Description	4 Series MSO	5 Series MSO	6 Series MSO
<b>Starter Bundle</b>	Embedded serial decode/trigger and integrated AFG (See page 3 for details.)	●	●	●
<b>4-RL-1</b>	Extend record length to 62.5 million sample points per channel	●		
<b>5-RL-125M</b>	Extend record length to 125 million sample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

# 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.

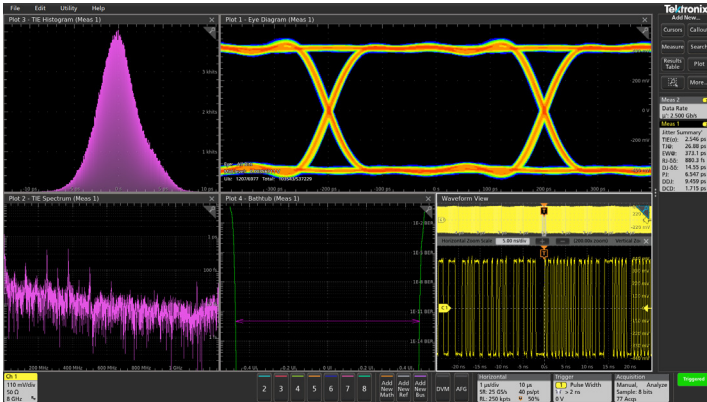


5 and 6 Series MSOs support advanced 3-phase motor drive analysis.

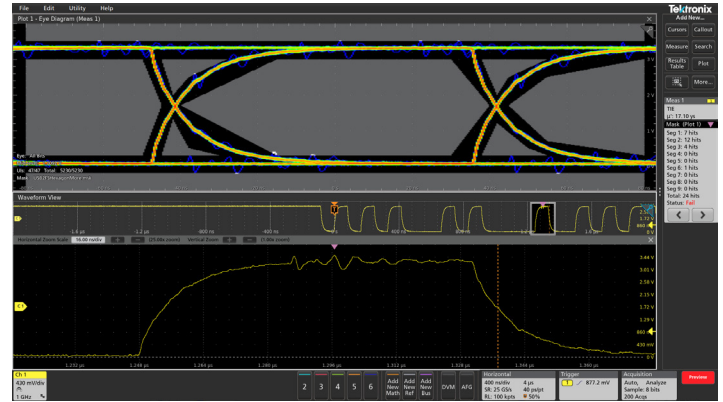
Included	Description	4 Series MSO	5 Series MSO	6 Series MSO
<b>Starter Bundle</b>	Embedded serial decode/trigger and integrated AFG (See page 3 for details.)	●	●	●
<b>4-RL-1</b>	Extend record length to 62.5 million sample points per channel	●		
<b>5-RL-125M</b>	Extend record length to 125 million sample points per channel		●	
<b>6-RL-2</b>	Extend record length to 250 million sample points per channel			●
<b>3PHASE</b>	3-Phase power analysis	●		
<b>DPM</b>	Digital power management and analysis		●	●
<b>IMDA</b>	3-Phase inverters, motors and drives analysis		●	●
<b>IMDA-DQ0</b>	DQ0 measurements for IMDA		●	●
<b>IMDA-MECH</b>	Mechanical measurements for IMDA		●	●
<b>PWR</b>	Advanced power measurements and analysis (includes PSRR, control loop analysis & impedance measurement)	●	●	●
<b>SRPM</b>	SPMI serial bus triggering and analysis	●	●	●
<b>SRSVID</b>	SVID serial bus triggering and analysis	●	●	●
<b>WBG-DPT</b>	Wide bandgap SiC/GaN double pulse test measurements	●	●	●
<b>1 YR Licenses</b>		<b>4-PRO-POWER-1Y</b>	<b>5-PRO-POWER-1Y</b>	<b>6-PRO-POWER-1Y</b>
<b>Perpetual Licences</b>		<b>4-PRO-POWER-PER</b>	<b>5-PRO-POWER-PER</b>	<b>6-PRO-POWER-PER</b>

# 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
<b>Starter Bundle</b>	Embedded serial decode/trigger and integrated AFG (See page 3 for details.)	●	●
<b>5-RL-125M</b>	Extend record length to 125 million sample points per channel	●	
<b>6-RL-2</b>	Extend record length to 250 million sample points per channel		●
<b>DBDDR3</b>	DDR3/LPDDR3 analysis and debug solution		●
<b>DBLVDS</b>	Automated LVDS test solution*	●	●
<b>DJA</b>	Advanced jitter analysis	●	●
<b>MTM</b>	Mask and limit testing	●	●
<b>PAM3</b>	PAM3 signal analysis*	●	●
<b>UDFLT</b>	User-defined filter creation tool	●	●
	<b>1 YR Licenses</b>	<b>5-PRO-SIGNAL-1Y</b>	<b>6-PRO-SIGNAL-1Y</b>
	<b>Perpetual Licences</b>	<b>5-PRO-SIGNAL-PER</b>	<b>6-PRO-SIGNAL-PER</b>

\*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.



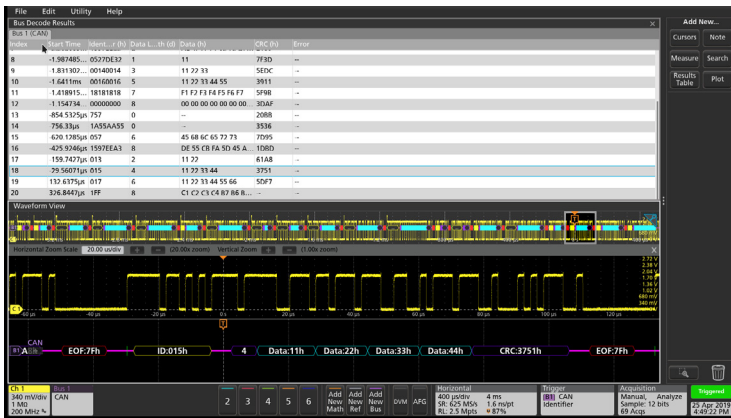
Run all tests specified in the standard, or selected tests. Automatic report generation gives you a jump on documentation.

Included	Description	5 Series MSO	6 Series MSO
<b>Starter Bundle</b>	Embedded serial decode/trigger and integrated AFG (See page 3 for details.)	●	●
<b>5-RL-125M</b>	Extend record length to 125 million sample points per channel	●	
<b>6-RL-2</b>	Extend record length to 250 million sample points per channel		●
<b>CMCPHY20</b>	MIPI C-PHY 2.0 TX compliance testing (requires Opt. DJA)*		●
<b>CMDPHY21</b>	MIPI D-PHY 2.1 conformance testing (requires Opt. DJA)*		●
<b>CMENET</b>	Ethernet (10/100/1000BASE-T) compliance testing*	●	●
<b>CMENETML</b>	Multilane Ethernet option for CMENET (10/100/1000BASE-T)*	●	●
<b>CMINDUEN10</b>	Industrial Ethernet (10BASE-T1L Long reach) automated compliance testing*	●	●
<b>CMUSB2</b>	USB2 automated compliance testing*	●	●
<b>CMDDR3</b>	DDR3 automated compliance testing*		●
<b>CMDPHY</b>	D-PHY-Tx 1.2 automated compliance testing*		●
<b>CMNBASET</b>	NBASE-T automated compliance testing*		●
<b>CMXGBT</b>	XGbT automated compliance testing*		●
<b>DBDDR3</b>	DDR3/LPDDR3 analysis and debug*		●
	<b>1 YR Licenses</b>	<b>5-PRO-COMPL-1Y</b>	<b>6-PRO-COMPL-1Y</b>
	<b>Perpetual Licences</b>	<b>5-PRO-COMPL-PER</b>	<b>6-PRO-COMPL-PER</b>

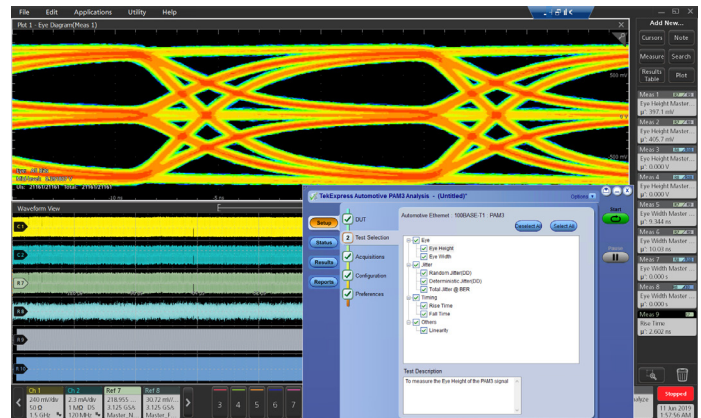
\*Requires optional solid-state drive with Windows operating system (5-WIN / 6-WIN)

# 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 & 6 Series MSOs.

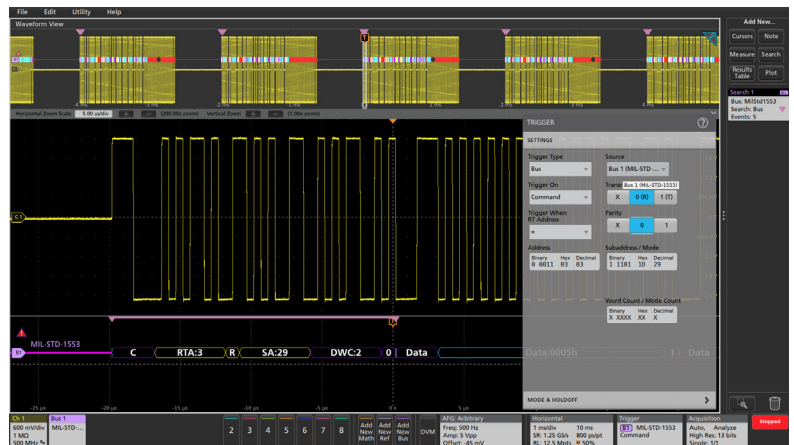
Included	Description	4 Series MSO	5 Series MSO	6 Series MSO
<b>Starter Bundle</b>	Embedded serial decode/trigger and integrated AFG (See page 3 for details.)	●	●	●
<b>4-RL-1</b>	Extend record length to 62.5 million sample points per channel	●		
<b>5-RL-125M</b>	Extend record length to 125 million sample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

\*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.

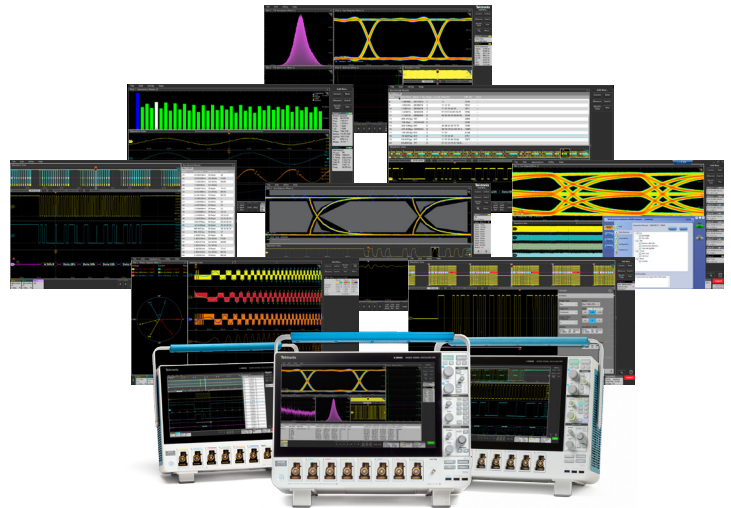
Included	Description	4 Series MSO	5 Series MSO	6 Series MSO
<b>Starter Bundle</b>	Embedded serial decode/trigger and integrated AFG (See page 3 for details.)	●	●	●
<b>4-RL-1</b>	Extend record length to 62.5 million sample points per channel	●		
<b>5-RL-125M</b>	Extend record length to 125 million sample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

# 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
<b>Starter Bundle</b>	4, 5 or 6 Series MSOs equipped with a Starter Bundle will be able to decode and trigger on I <sup>2</sup> C, SPI, RS-232/422/485/UART bus activity. An integrated arbitrary/function generator with 13 predefined functions and arbitrary waveforms are included.	●	●	●
<b>ALL Pro Bundles</b>	Serial Decode	●	●	●
	Power	●	●	●
	Signal Integrity		●	●
	Standards Compliance		●	●
	Automotive	●	●	●
	Aerospace	●	●	●
<b>These Additional Features</b>	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			●
	<b>1 YR Licenses</b>	<b>4-ULTIMATE-1Y</b>	<b>5-ULTIMATE-1Y</b>	<b>6-ULTIMATE-1Y</b>
	<b>Perpetual Licences</b>	<b>4-ULTIMATE-PER</b>	<b>5-ULTIMATE-PER</b>	<b>6-ULTIMATE-PER</b>

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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<b>India</b>	000 800 650 1835
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<b>Switzerland*</b>	00800 2255 4835
<b>Taiwan</b>	886 (2) 2656 6688
<b>Thailand</b>	1 800 011 931
<b>United Kingdom / Ireland*</b>	00800 2255 4835
<b>USA</b>	1 800 833 9200
<b>Vietnam</b>	12060128

\* European toll-free number. If not accessible, call: +41 52 675 3777

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